

Tables Useful for the Calculation of the Molecular Integrals XV

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A part of the integrals of type $\int \alpha_a^*(1)f(\mathbf{r})\beta_b(1)dv$ where $f(\mathbf{r}) = x+iy, z, x^2+y^2$ and z^2 were calculated by using IBM 650 and published as Tables XL, XLI, XLII, XLIII, and XLIV in Parts XII¹⁾, XIII²⁾, and XIV³⁾ of this series. The remaining results which have been calculated by using KDC-I are given in this paper. These integrals can be expressed in terms of the parameters $A=\alpha_n=\delta_n R$ and $B=\alpha'_n=\delta'_n R$, where δ_n and δ'_n are the orbital exponents for two atoms A and B respectively and R is the inter-nuclear distance. The numerical tables are as follows.

Table XLV.

$$Z, 11 = 1/R \cdot \int (1s)_a z (1s)_b dv,$$

for $A=10.00$ (0.50) 24.50, $B=10.50$ (0.50) 25.00, and $A < B$.

Table XLVI.

$$Z, 22 = 1/R \cdot \int (2s)_a z (2s)_b dv,$$

$$Z, 33 = 1/R \cdot \int (2p\sigma)_a z (2p\sigma)_b dv,$$

$$Z, 44 = 1/R \cdot \int (2p\pi)_a z (2p\pi)_b dv,$$

for $A=1.00$ (0.25) 9.75, $B=1.25$ (0.25) 10.00, and $A < B$.

In giving the numerical values, the floating point number system is taken. The decimal point should be put before the first digit and then figures should be multiplied by 10^E , where E means the number given in the last two digits. For example,

$$\begin{aligned}
+123456789-01 &= 0.0123456789 \\
-123456789-00 &= -0.123\dots\dots\dots 9 \\
+123456789+01 &= 1.23\dots\dots\dots 9 \\
-123456789+02 &= -12.3\dots\dots\dots 9.
\end{aligned}$$

The integrations are performed by using the following formulae.

$$21) \quad Z, 11 = \frac{\sqrt{\alpha_1^3 \alpha_1'^3}}{8} (A_3 B_1 - A_1 B_3),$$

where $\alpha_1 = \delta_1 R$, $\alpha_1' = \delta_1' R$, $A_n = A_n \left(\frac{\alpha_1 + \alpha_1'}{2} \right)$, and $B_n = B_n \left(\frac{\alpha_1 - \alpha_1'}{2} \right)$,

$$22) \quad Z, 22 = \frac{\sqrt{\alpha_2^5 \alpha_2'^5}}{96} (A_5 B_1 - 2A_3 B_3 + A_1 B_5),$$

$$23) \quad Z, 33 = \frac{\sqrt{\alpha_3^5 \alpha_3'^5}}{32} (A_5 B_3 - A_3 B_5 - A_3 B_1 + A_1 B_3),$$

$$24) \quad Z, 44 = \frac{\sqrt{\alpha_2^5 \alpha_2'^5}}{64} \{A_5 (B_1 - B_3) - A_3 (B_1 - B_5) - A_1 (B_5 - B_3)\},$$

where $\alpha_2 = \delta_2 R$, $\alpha_2' = \delta_2' R$, $A_n = A_n \left(\frac{\alpha_2 + \alpha_2'}{2} \right)$, and $B_n = B_n \left(\frac{\alpha_2 - \alpha_2'}{2} \right)$.

A_n and B_n are the auxiliary functions explained in Part XII.

Acknowledgement

Calculations are performed by KDC-I of the Kyoto University. Grateful acknowledgement is made to the staff of the machine.

References

- 1) Natural Science Report, Ochanomizu University, 13, 31 (1962).
- 2) Natural Science Report, Ochanomizu University, 14, 37 (1963).
- 3) Natural Science Report, Ochanomizu University, 14, 45 (1963).

Misprint to Part XIV

Page	Line	A	B		
45			1		integrals
45			3		Tables
45			3		Parts
98	19	10.25	8.75	-90380770	47
98	20	10.25	9.00	55713370	47
99	4	10.50	8.50	-94266605	47
103	48	12.25	5.25	-29137725	48
113	46	15.75	2.00	-23834935	49

Table XLV.

A	B	Z. 11	A	B	Z. 11
10.00	10.50	+541563822-04	10.50	11.00	+352601727-04
10.00	11.00	+885436482-04	10.50	11.50	+575914827-04
10.00	11.50	+109446140-03	10.50	12.00	+711237797-04
10.00	12.00	+121213639-03	10.50	12.50	+787080485-04
10.00	12.50	+126848700-03	10.50	13.00	+823077550-04
10.00	13.00	+128418204-03	10.50	13.50	+832717428-04
10.00	13.50	+127340531-03	10.50	14.00	+825238994-04
10.00	14.00	+124585388-03	10.50	14.50	+806947260-04
10.00	14.50	+120812414-03	10.50	15.00	+782123359-04
10.00	15.00	+116467358-03	10.50	15.50	+753654776-04
10.00	15.50	+111848613-03	10.50	16.00	+723470295-04
10.00	16.00	+107153253-03	10.50	16.50	+692840616-04
10.00	16.50	+102508879-03	10.50	17.00	+662585879-04
10.00	17.00	+979956386-04	10.50	17.50	+633218951-04
10.00	17.50	+936614171-04	10.50	18.00	+605044234-04
10.00	18.00	+895323559-04	10.50	18.50	+578225868-04
10.00	18.50	+856200844-04	10.50	19.00	+552834662-04
10.00	19.00	+819266897-04	10.50	19.50	+528880225-04
10.00	19.50	+784481494-04	10.50	20.00	+506333155-04
10.00	20.00	+751766622-04	10.50	20.50	+485140103-04
10.00	20.50	+721022284-04	10.50	21.00	+465233922-04
10.00	21.00	+692137186-04	10.50	21.50	+446540493-04
10.00	21.50	+664995865-04	10.50	22.00	+428983357-04
10.00	22.00	+639483233-04	10.50	22.50	+412486566-04
10.00	22.50	+615487537-04	10.50	23.00	+396976560-04
10.00	23.00	+592902102-04	10.50	23.50	+382383261-04
10.00	23.50	+571626309-04	10.50	24.00	+368640706-04
10.00	24.00	+551566031-04	10.50	24.50	+355687244-04
10.00	24.50	+532633762-04	10.50	25.00	+343465641-04
10.00	25.00	+514748463-04			

A	B	Z. 11	A	B	Z. 11
11.00	11.50	+229047860-04	11.50	13.00	+298410073-04
11.00	12.50	+373752611-04	11.50	13.50	+329723308-04
11.00	12.50	+461176069-04	11.50	14.00	+344318889-04
11.00	19.00	+509955619-04	11.50	14.50	+347902899-04
11.00	13.50	+532899952-04	11.50	15.00	+344370255-04
11.00	17.00	+538791622-04	11.50	15.50	+336370126-04
11.00	14.50	+533635560-04	11.50	16.00	+325695131-04
11.00	15.00	+521522742-04	11.50	16.50	+313549901-04
11.00	15.50	+505226094-04	11.50	17.00	+300735796-04
11.00	16.00	+486612385-04	11.50	17.50	+287778124-04
11.00	16.50	+466925994-04	11.50	18.00	+275013807-04
11.00	17.00	+446984652-04	11.50	18.50	+262651676-04
11.00	17.50	+427314489-04	11.50	19.00	+250813962-04
11.00	18.00	+408243057-04	11.50	19.50	+239564911-04
11.00	18.50	+389963438-04	11.50	20.00	+228930335-04
11.00	19.00	+372578440-04	11.50	20.50	+218911026-04
11.00	19.50	+356130920-04	11.50	21.00	+209491979-04
11.00	20.00	+340624589-04	11.50	21.50	+200648598-04
11.00	20.50	+326038308-04	11.50	22.00	+192350898-04
11.00	21.00	+312335743-04	11.50	22.50	+184566302-04
11.00	21.50	+299471956-04	11.50	23.00	+177261521-04
11.00	22.00	+287397750-04	11.50	23.50	+170403703-04
11.00	22.50	+276062600-04	11.50	24.00	+163961191-04
11.00	23.00	+265416498-04	11.50	24.50	+157903935-04
11.00	23.50	+255411144-04	11.50	25.00	+152203734-04
11.00	24.00	+246000590-04	12.00	12.50	+960403406-05
11.00	24.50	+237141661-04	12.00	13.00	+156434872-04
11.00	25.00	+228794079-04	12.00	13.50	+192711457-04
11.50	12.00	+148467624-04	12.00	14.00	+212776788-04
11.50	12.50	+242042655-04	12.00	14.50	+222044817-04

A	B	Z. 11	A	B	Z. 11
12.00	15.00	+224215153-04	12.50	17.50	+129459296-04
12.00	15.50	+221809172-04	12.50	18.00	+124061182-04
12.00	16.00	+216539124-04	12.50	18.50	+118620459-04
12.00	16.50	+209561786-04	12.50	19.00	+113274631-04
12.00	17.00	+201653145-04	12.50	19.50	+108108177-04
12.00	17.50	+193328380-04	12.50	20.00	+103169857-04
12.00	18.00	+184924394-04	12.50	20.50	+984845972-05
12.00	18.50	+176656587-04	12.50	21.00	+940616116-05
12.00	19.00	+168657881-04	12.50	21.50	+898999488-05
12.00	19.50	+161005541-04	12.50	22.00	+859922989-05
12.00	20.00	+153739613-04	12.50	22.50	+823275390-05
12.00	20.50	+146875565-04	12.50	23.00	+788924598-05
12.00	21.00	+140412902-04	12.50	23.50	+756729012-05
12.00	21.50	+134341096-04	12.50	24.00	+726545114-05
12.00	22.00	+128643565-04	12.50	24.50	+698232117-05
12.00	22.50	+123300380-04	12.50	25.00	+671654932-05
12.00	23.00	+118290032-04	13.00	13.50	+399612489-05
12.00	23.50	+113590635-04	13.00	14.00	+649843370-05
12.00	24.00	+109180661-04	13.00	14.50	+799332085-05
12.00	24.50	+105039405-04	13.00	15.00	+881325497-05
12.00	25.00	+101147254-04	13.00	15.50	+918517537-05
12.50	13.00	+620070374-05	13.00	16.00	+926370307-05
12.50	13.50	+100915433-04	13.00	16.50	+915391463-05
12.50	14.00	+124221646-04	13.00	17.00	+8926 6123-05
12.50	14.50	+137058165-04	13.00	17.50	+863076663-05
12.50	15.00	+142933647-04	13.00	18.00	+829737255-05
12.50	15.50	+144242061-04	13.00	18.50	+794797068-05
12.50	16.00	+142612554-04	13.00	19.00	+759635456-05
12.50	16.50	+139149831-04	13.00	19.50	+725128969-05
12.50	17.00	+134599067-04	13.00	20.00	+691813808-05

A	B	Z. 11	A	B	Z. 11
13.00	20.50	+659997261-05	13.50	24.00	+321376690-05
13.00	21.00	+629834160-05	13.50	24.50	+308142697-05
13.00	21.50	+601379139-05	13.50	25.00	+295746487-05
13.00	22.00	+574622138-05			
13.00	22.50	+549512830-05	14.00	14.50	+165132732-05
13.00	23.00	+525976923-05	14.00	15.00	+268135817-05
13.00	23.50	+503927152-05	14.00	15.50	+329358650-05
13.00	24.00	+483270528-05	14.00	16.00	+362670680-05
13.00	24.50	+463913179-05	14.00	16.50	+377513532-05
13.00	25.00	+445763247-05	14.00	17.00	+380303503-05
			14.00	17.50	+375389844-05
13.50	14.00	+257092890-05	14.00	18.00	+365709926-05
13.50	14.50	+417761402-05	14.00	18.50	+353236754-05
13.50	15.00	+513497718-05	14.00	19.00	+339285434-05
13.50	15.50	+565795604-05	14.00	19.50	+324722636-05
13.50	16.00	+589305970-05	14.00	20.00	+310109979-05
13.50	16.50	+593997658-05	14.00	20.50	+295802288-05
13.50	17.00	+586636345-05	14.00	21.00	+282014752-05
13.50	17.50	+571797229-05	14.00	21.50	+268868981-05
13.50	18.00	+552557571-05	14.00	22.00	+256424455-05
13.50	18.50	+530971583-05	14.00	22.50	+244700021-05
13.50	19.00	+508395422-05	14.00	23.00	+233688458-05
13.50	19.50	+485709828-05	14.00	23.50	+223366450-05
13.50	20.00	+463472834-05	14.00	24.00	+213701241-05
13.50	20.50	+442024312-05	14.00	24.50	+204655092-05
13.50	21.00	+421557712-05	14.00	25.00	+196188221-05
13.50	21.50	+402169048-05			
13.50	22.00	+383890517-05	14.50	15.00	+105902137-05
13.50	22.50	+366713216-05	14.50	15.50	+171839842-05
13.50	23.00	+350602765-05	14.50	16.00	+210937630-05
13.50	23.50	+335509746-05	14.50	16.50	+232129253-05

A	B	Z, 11	A	B	Z, 11
14.50	17.00	+241489005-05	15.00	22.00	+114334817-05
14.50	17.50	+243139975-05	15.00	22.50	+108934525-05
14.50	18.00	+239873711-05	15.00	23.00	+103829195-05
14.50	18.50	+233573289-05	15.00	23.50	+990251540-06
14.50	19.00	+225501914-05	15.00	24.00	+945182733-06
14.50	19.50	+216500353-05	15.00	24.50	+902980165-06
14.50	20.00	+207121752-05	15.00	25.00	+863501474-06
14.50	20.50	+197723795-05	15.50	16.00	+433676768-06
14.50	21.00	+188531827-05	15.50	16.50	+702780092-06
14.50	21.50	+179681944-05	15.50	17.00	+861619137-06
14.50	22.00	+171250515-05	15.50	17.50	+947076813-06
14.50	22.50	+163274334-05	15.50	18.00	+984175880-06
14.50	23.00	+155764362-05	15.50	18.50	+989864817-06
14.50	23.50	+148715041-05	15.50	19.00	+975594012-06
14.50	24.00	+142110653-05	15.50	19.50	+949070114-06
14.50	24.50	+135929566-05	15.50	20.00	+915450470-06
14.50	25.00	+130147071-05	15.50	20.50	+878158359-06
15.00	15.50	+678169977-06	15.50	21.00	+839438727-06
15.00	16.00	+109968546-05	15.50	21.50	+800737409-06
15.00	16.50	+134904386-05	15.50	22.00	+762960288-06
15.00	17.00	+148369337-05	15.50	22.50	+726650103-06
15.00	17.50	+154265038-05	15.50	23.00	+692107148-06
15.00	18.00	+155236913-05	15.50	23.50	+659471696-06
15.00	18.50	+153074071-05	15.50	24.00	+628779967-06
15.00	19.00	+148981989-05	15.50	24.50	+600002025-06
15.00	19.50	+143768335-05	15.50	25.00	+573067599-06
15.00	20.00	+137969928-05	16.00	16.50	+276959857-06
15.00	20.50	+131939366-05	16.00	17.00	+448544349-06
15.00	21.00	+125904188-05	16.00	17.50	+549604161-06
15.00	21.50	+120007343-05			

A	B	Z. 11	A	B	Z. 11
16.00	18.00	+603782900-06	16.50	24.50	+265148193-06
16.00	18.50	+627175379-06	16.50	25.00	+252666240-06
16.00	19.00	+630414909-06	17.00	17.50	+112536906-06
16.00	19.50	+621029945-06	17.00	18.00	+182048519-06
16.00	20.00	+603871734-06	17.00	18.50	+222822238-06
16.00	20.50	+582227306-06	17.00	19.00	+244532863-06
16.00	21.00	+558279222-06	17.00	19.50	+253725725-06
16.00	21.50	+533454464-06	17.00	20.00	+254821814-06
16.00	22.00	+508670783-06	17.00	20.50	+250799474-06
16.00	22.50	+484501676-06	17.00	21.00	+243657324-06
16.00	23.00	+461289383-06	17.00	21.50	+234728501-06
16.00	23.50	+439221979-06	17.00	22.00	+224894641-06
16.00	24.00	+418385911-06	17.00	22.50	+214731353-06
16.00	24.50	+398801698-06	17.00	23.00	+204607279-06
16.00	25.00	+380448081-06	17.00	23.50	+194751623-06
16.50	17.00	+176651741-06	17.00	24.00	+185300131-06
16.50	17.50	+285925563-06	17.00	24.50	+176326384-06
16.50	18.00	+350151718-06	17.00	25.00	+167863125-06
16.50	18.50	+384464988-06	17.50	18.00	+716096960-07
16.50	19.00	+39113592-06	17.50	18.50	+115779364-06
16.50	19.50	+401025670-06	17.50	19.00	+141637948-06
16.50	20.00	+394872785-06	17.50	19.50	+155361915-06
16.50	20.50	+383792755-06	17.50	20.00	+161126381-06
16.50	21.00	+369880769-06	17.50	20.50	+161749048-06
16.50	21.50	+354524072-06	17.50	21.00	+159126541-06
16.50	22.00	+338629659-06	17.50	21.50	+154530438-06
16.50	22.50	+322779465-06	17.50	22.00	+148808076-06
16.50	23.00	+307336221-06	17.50	22.50	+142519180-06
16.50	23.50	+292515548-06	17.50	23.00	+136028684-06
16.50	24.00	+278435127-06			

A	B	Z. 11	A	B	Z. 11
17.50	23.50	+129569900-06	18.50	24.50	+518147074-07
17.50	24.00	+123287542-06	18.50	25.00	+492705181-07
17.50	24.50	+117266992-06	19.00	19.50	+183323285-07
17.50	25.00	+111554228-06	19.00	20.00	+295960094-07
18.00	18.50	+455167071-07	19.00	20.50	+361545073-07
18.00	19.00	+735540820-07	19.00	21.00	+396032708-07
18.00	19.50	+899375134-07	19.00	21.50	+410183711-07
18.00	20.00	+986051901-07	19.00	22.00	+411243981-07
18.00	20.50	+102217123-06	19.00	22.50	+404079454-07
18.00	21.00	+102567095-06	19.00	23.00	+391944379-07
18.00	21.50	+100861528-06	19.00	23.50	+377001329-07
18.00	22.00	+979085693-07	19.00	24.00	+360674316-07
18.00	22.50	+942462190-07	19.00	24.50	+343888224-07
18.00	23.00	+902294832-07	19.00	25.00	+327231428-07
18.00	23.50	+860895106-07	19.50	20.00	+116172530-07
18.00	24.00	+819738286-07	19.50	20.50	+187465346-07
18.00	24.50	+779737291-07	19.50	21.00	+228906995-07
18.00	25.00	+741428777-07	19.50	21.50	+250635607-07
18.50	19.00	+289010019-07	19.50	22.00	+259484404-07
18.50	19.50	+466803821-07	19.50	22.50	+260051523-07
18.50	20.00	+570508660-07	19.50	23.00	+255422641-07
18.50	20.50	+625205038-07	19.50	23.50	+247659830-07
18.50	21.00	+647820774-07	19.50	24.00	+238132261-07
18.50	21.50	+649762578-07	19.50	24.50	+227740625-07
18.50	22.00	+638696228-07	19.50	25.00	+217069218-07
18.50	22.50	+619752523-07	20.00	20.50	+735508421-08
18.50	23.00	+596344060-07	20.00	21.00	+118635537-07
18.50	23.50	+570720260-07	20.00	21.50	+144800014-07
18.50	24.00	+544343917-07	20.00	22.00	+158479767-07

A	B	Z. 11	A	B	Z. 11
20.00	22.50	+164009638-07	21.50	25.00	+404509990-08
20.00	23.00	+164304696-07	22.00	22.50	+117171013-08
20.00	23.50	+161319838-07	22.00	23.00	+188692117-08
20.00	24.00	+156360516-07	22.00	23.50	+229950079-08
20.00	24.50	+150292827-07	22.00	24.00	+251294709-08
20.00	25.00	+143685975-07	22.00	24.50	+259681765-08
20.50	21.00	+465250152-08	22.00	25.00	+259778031-08
20.50	21.50	+750119465-08	22.50	23.00	+738792726-09
20.50	22.00	+915180180-08	22.50	23.50	+118931828-08
20.50	22.50	+100124294-07	22.50	24.00	+144885080-08
20.50	23.00	+103578051-07	22.50	24.50	+158278862-08
20.50	23.50	+103725624-07	22.50	25.00	+163506168-08
20.50	24.00	+101804394-07			
20.50	24.50	+986400960-08	23.00	23.50	+465487710-09
20.50	25.00	+947801256-08	23.00	24.00	+749085026-09
			23.00	24.50	+912236871-09
21.00	21.50	+294046085-08	23.00	25.00	+996233635-09
21.00	22.00	+473895815-08			
21.00	22.50	+577946584-08	23.50	24.00	+293081590-09
21.00	23.00	+632053787-08	23.50	24.50	+471480875-09
21.00	23.50	+653612669-08	23.50	25.00	+573979588-09
21.00	24.00	+654306959-08			
21.00	24.50	+641962070-08	24.00	24.50	+184405760-09
21.00	25.00	+621796579-08	24.00	25.00	+296556642-09
			24.50	25.00	+115951514-09
21.50	22.00	+185690097-08			
21.50	22.50	+299148074-08			
21.50	23.00	+364691530-08			
21.50	23.50	+398686079-08			
21.50	24.00	+412136282-08			
21.50	24.50	+412429331-08			

Table XLVI.

A	B	Z, 22	Z, 33	Z, 44
1.00	1.25	+835187419-01	+139474515+00	+493312545-01
1.00	1.50	+138343448+00	+227200399+00	+813061460-01
1.00	1.75	+170384017+00	+274874701+00	+995125469-01
1.00	2.00	+186470334+00	+295199921+00	+108097670+00
1.00	2.25	+192059825+00	+298071614+00	+110380815+00
1.00	2.50	+191033932+00	+290390877+00	+108726115+00
1.00	2.75	+186014401+00	+276728174+00	+104731565+00
1.00	3.00	+178723571+00	+260018931+00	+994465624-01
1.00	3.25	+170271783+00	+242103118+00	+935462113-01
1.00	3.50	+161362513+00	+224103782+00	+874562569-01
1.00	3.75	+152432114+00	+206681440+00	+814384624-01
1.00	4.00	+143742928+00	+190201480+00	+756476805-01
1.00	4.25	+135444742+00	+174843223+00	+701696278-01
1.00	4.50	+127615149+00	+160670497+00	+650457660-01
1.00	4.75	+120285952+00	+147677202+00	+602895906-01
1.00	5.00	+113460474+00	+135816478+00	+558973579-01
1.00	5.25	+107124822+00	+125019398+00	+518550442-01
1.00	5.50	+101255253+00	+115206610+00	+481429276-01
1.00	5.75	+958228594-01	+106295714+00	+447384707-01
1.00	6.00	+907966209-01	+982055847-01	+416182162-01
1.00	6.25	+861452628-01	+908589808-01	+387589124-01
1.00	6.50	+818384253-01	+841838376-01	+361382277-01
1.00	6.75	+778472961-01	+781138902-01	+337351196-01
1.00	7.00	+741449793-01	+725887751-01	+315300452-01
1.00	7.25	+707066153-01	+675538841-01	+295050128-01
1.00	7.50	+675094020-01	+629600659-01	+276435683-01
1.00	7.75	+645325416-01	+587631927-01	+259307468-01
1.00	8.00	+617571103-01	+549237626-01	+243529647-01
1.00	8.25	+591659481-01	+514064509-01	+228979361-01
1.00	8.50	+567435106-01	+481796797-01	+215545603-01
1.00	8.75	+544757236-01	+452152592-01	+203128120-01

A	B	Z, 22	Z, 33	Z, 44
1.00	9.00	+523498502-01	+424880013-01	+191636448-01
1.00	9.25	+503543699-01	+399753919-01	+180989020-01
1.00	9.50	+484788449-01	+376573014-01	+171112178-01
1.00	9.75	+467138211-01	+355157235-01	+161939444-01
1.00	10.00	+450507292-01	+335345223-01	+153410795-01
1.25	1.50	+666666537-01	+107234391+00	+390689780-01
1.25	1.75	+114540780+00	+180503437+00	+667343319-01
1.25	2.00	+146386099+00	+225767650+00	+846880287-01
1.25	2.25	+165920375+00	+250189561+00	+952008907-01
1.25	2.50	+176500318+00	+259974103+00	+100326155+00
1.25	2.75	+180789650+00	+259907375+00	+101695811+00
1.25	3.00	+180780187+00	+253478031+00	+100531448+00
1.25	3.25	+177914311+00	+243146303+00	+977177560-01
1.25	3.50	+173216284+00	+230607918+00	+938821332-01
1.25	3.75	+167403479+00	+217009069+00	+894625655-01
1.25	4.00	+160972503+00	+203108832+00	+847604471-01
1.25	4.25	+154262969+00	+189397134+00	+799798702-01
1.25	4.50	+147503695+00	+176178705+00	+752561984-01
1.25	4.75	+140845743+00	+163632065+00	+706766004-01
1.25	5.00	+134385837+00	+151850713+00	+662946036-01
1.25	5.25	+128182962+00	+140871622+00	+621404916-01
1.25	5.50	+122270060+00	+130695034+00	+582285962-01
1.25	5.75	+116662280+00	+121297854+00	+545625075-01
1.25	6.00	+111362766+00	+112643031+00	+511386637-01
1.25	6.25	+106366740+00	+104685720+00	+479489444-01
1.25	6.50	+101664338+00	+973775364-01	+449824148-01
1.25	6.75	+972426032-01	+906692813-01	+422265869-01
1.25	7.00	+930868572-01	+845127356-01	+396682502-01
1.25	7.25	+891816462-01	+788617084-01	+372940614-01
1.25	7.50	+855113740-01	+736727080-01	+350909143-01
1.25	7.75	+820607125-01	+689052426-01	+330461788-01

A	B	Z, 22	Z, 33	Z, 44
1.25	8.00	+000000000-00	+000000000-00	+000000000-00
1.25	8.25	+757598504-01	+604884359-01	+293846997-01
1.25	8.50	+728823166-01	+567734569-01	+277461378-01
1.25	8.75	+701698662-01	+533484360-01	+262224059-01
1.25	9.00	+676109116-01	+501874712-01	+248044562-01
1.25	9.25	+651946877-01	+472670675-01	+234839464-01
1.25	9.50	+629112302-01	+445659444-01	+222532082-01
1.25	9.75	+607513144-01	+420648399-01	+211051956-01
1.25	10.00	+587064224-01	+397463343-01	+200334442-01
1.50	1.75	+544608966-01	+837254560-01	+316122106-01
1.50	2.00	+957391878-01	+143648038+00	+552041224-01
1.50	2.25	+125331960+00	+183343763+00	+717029154-01
1.50	2.50	+145433844+00	+207233542+00	+824587332-01
1.50	2.75	+158189041+00	+219380238+00	+887914296-01
1.50	3.00	+165428610+00	+223118565+00	+918296248-01
1.50	3.25	+168619326+00	+221032135+00	+924782480-01
1.50	3.50	+168895277+00	+215054615+00	+914370312-01
1.50	3.75	+167114598+00	+206599644+00	+892347879-01
1.50	4.00	+163917380+00	+196681756+00	+862647982-01
1.50	4.25	+159776084+00	+186016907+00	+828158397-01
1.50	4.50	+155036409+00	+175101324+00	+790974890-01
1.50	4.75	+149949177+00	+164271470+00	+752599688-01
1.50	5.00	+144694737+00	+153748784+00	+714094134-01
1.50	5.25	+139401264+00	+143672655+00	+676193472-01
1.50	5.50	+134158515+00	+134124500+00	+639393675-01
1.50	5.75	+129028046+00	+125145330+00	+604015738-01
1.50	6.00	+124050799+00	+116748251+00	+570254152-01
1.50	6.25	+119252680+00	+108927661+00	+538211859-01
1.50	6.50	+114648748+00	+101665651+00	+507927133-01
1.50	6.75	+110246247+00	+949366883-01	+479392512-01
1.50	7.00	+106046883+00	+887108084-01	+452569392-01

A	B	Z, 22	Z, 33	Z, 44
1.50	7.25	+102048479+00	+829559165-01	+427398273-01
1.50	7.50	+982462024-01	+776392802-01	+403806525-01
1.50	7.75	+946334679-01	+727286267-01	+381713890-01
1.50	8.00	+912025743-01	+681928075-01	+361036329-01
1.50	8.25	+879451982-01	+640021731-01	+341689059-01
1.50	8.50	+848527163-01	+601288893-01	+323588245-01
1.50	8.75	+819164610-01	+565469746-01	+306652566-01
1.50	9.00	+791278831-01	+532323371-01	+290803995-01
1.50	9.25	+764786709-01	+501627943-01	+275968296-01
1.50	9.50	+739608141-01	+473179387-01	+262075350-01
1.50	9.75	+715666751-01	+446790582-01	+249059332-01
1.50	10.00	+692889923-01	+422290516-01	+236858632-01
1.75	2.00	+452067804-01	+659002033-01	+259475581-01
1.75	2.25	+806911505-01	+114352601+00	+459717118-01
1.75	2.50	+107377460+00	+147789956+00	+606526032-01
1.75	2.75	+126662264+00	+169163933+00	+708562652-01
1.75	3.00	+139977898+00	+181263090+00	+774700938-01
1.75	3.25	+148609590+00	+186462157+00	+812908663-01
1.75	3.50	+153637615+00	+186674045+00	+829886075-01
1.75	3.75	+155936909+00	+183387449+00	+831058352-01
1.75	4.00	+156199983+00	+177733772+00	+820712852-01
1.75	4.25	+154966679+00	+170557258+00	+802181232-01
1.75	4.50	+152653331+00	+162477967+00	+778019592-01
1.75	4.75	+149578422+00	+153944271+00	+750168097-01
1.75	5.00	+145983938+00	+145274868+00	+720084726-01
1.75	5.25	+142052600+00	+136691522+00	+688853947-01
1.75	5.50	+137921468+00	+128344325+00	+657272548-01
1.75	5.75	+133692605+00	+120330723+00	+625917568-01
1.75	6.00	+129441306+00	+112710007+00	+595198579-01
1.75	6.25	+125222501+00	+105513920+00	+565398880-01
1.75	6.50	+121075598+00	+987548000-01	+536706218-01

A	B	Z. 22	Z. 33	Z. 44
1.75	6.75	+117028273+00	+924313620-01	+509237260-01
1.75	7.00	+113099320+00	+865331677-01	+483055638-01
1.75	7.25	+109300845+00	+810437113-01	+458186158-01
1.75	7.50	+105639952+00	+759427949-01	+434625349-01
1.75	7.75	+102120033+00	+712081140-01	+412349686-01
1.75	8.00	+987417296-01	+668164784-01	+391321623-01
1.75	8.25	+955036798-01	+627446462-01	+371494177-01
1.75	8.50	+924031090-01	+589698205-01	+352814565-01
1.75	8.75	+894362253-01	+554700904-01	+335226535-01
1.75	9.00	+865985729-01	+522246172-01	+318672458-01
1.75	9.25	+838852709-01	+492137609-01	+303094649-01
1.75	9.50	+812911879-01	+464191738-01	+288436286-01
1.75	9.75	+788110919-01	+438238151-01	+274642179-01
1.75	10.00	+764397429-01	+414118539-01	+261659247-01
2.00	2.25	+379492627-01	+520302409-01	+215042687-01
2.00	2.50	+684551912-01	+908732573-01	+384751278-01
2.00	2.75	+921551428-01	+118334857+00	+513176074-01
2.00	3.00	+109999102+00	+136513957+00	+606254092-01
2.00	3.25	+122986923+00	+147407361+00	+670217008-01
2.00	3.50	+132045342+00	+152749333+00	+710838666-01
2.00	3.75	+137979972+00	+153970654+00	+733136797-01
2.00	4.00	+141465504+00	+152213360+00	+741309856-01
2.00	4.25	+143053812+00	+148368037+00	+738784712-01
2.00	4.50	+143189245+00	+143116726+00	+728310518-01
2.00	4.75	+142225646+00	+136973753+00	+712064263-01
2.00	5.00	+140442482+00	+130321324+00	+691751741-01
2.00	5.25	+138059083+00	+123439147+00	+668697327-01
2.00	5.50	+135246689+00	+116528306+00	+643920421-01
2.00	5.75	+132138303+00	+109730221+00	+618198126-01
2.00	6.00	+128836743+00	+103141406+00	+592116954-01
2.00	6.25	+125421056+00	+968249559-01	+566113784-01

A	B	Z, 22	Z, 33	Z, 44
2.00	6.50	+121951653+00	+908191700-01	+540509294-01
2.00	6.75	+118474327+00	+851443683-01	+515533526-01
2.00	7.00	+115023462+00	+798078165-01	+491346893-01
2.00	7.25	+111624535+00	+748076454-01	+468056073-01
2.00	7.50	+108296095+00	+701356186-01	+445726888-01
2.00	7.75	+105051298+00	+657792967-01	+424394096-01
2.00	8.00	+101899142+00	+617235514-01	+40406 290-01
2.00	8.25	+988454039-01	+579517475-01	+384746800-01
2.00	8.50	+958933841-01	+544465659-01	+366408337-01
2.00	8.75	+930445092-01	+511905446-01	+349026776-01
2.00	9.00	+902987678-01	+481665656-01	+332568720-01
2.00	9.25	+876550789-01	+453580604-01	+316996790-01
2.00	9.50	+851115847-01	+427492110-01	+302271238-01
2.00	9.75	+826658323-01	+403250648-01	+288351032-01
2.00	0.00	+803149883-01	+380716128-01	+275194946-01
2.25	2.50	+321124985-01	+410581749-01	+179378577-01
2.25	2.75	+583629915-01	+719432349-01	+323140648-01
2.25	3.00	+792302478-01	+940714914-01	+434356647-01
2.25	3.25	+953984801-01	+109007904+00	+517330103-01
2.25	3.50	+107594402+00	+118232969+00	+576611459-01
2.25	3.75	+116505045+00	+123042948+00	+616496065-01
2.25	4.00	+122741578+00	+124521689+00	+640800276-01
2.25	4.25	+126828337+00	+123547963+00	+652792558-01
2.25	4.50	+129204762+00	+120818544+00	+655204272-01
2.25	4.75	+130233335+00	+116876222+00	+650278673-01
2.25	5.00	+130209740+00	+112137491+00	+639834335-01
2.25	5.25	+129373173+00	+106917413+00	+625330161-01
2.25	5.50	+127915939+00	+101450870+00	+607926183-01
2.25	5.75	+125991880+00	+959101167-01	+588537550-01
2.25	6.00	+123723517+00	+904190603-01	+567880174-01
2.25	6.25	+121208058+00	+850645393-01	+546509563-01

A	B	Z. 22	Z. 33	Z. 44
2.25	6.50	+118522323+00	+799053865-01	+524852550-01
2.25	6.75	+115726780+00	+749792166-01	+503233643-01
2.25	7.00	+112868783+00	+703080314-01	+481895871-01
2.25	7.25	+109985234+00	+659022399-01	+461018173-01
2.25	7.50	+107104660+00	+617639551-01	+440728824-01
2.25	7.75	+104248946+00	+578893487-01	+421116638-01
2.25	8.00	+101434666+00	+542705478-01	+402239575-01
2.25	8.25	+986741950-01	+508969376-01	+384131869-01
2.25	8.50	+959765731-01	+477562483-01	+366809491-01
2.25	8.75	+933481838-01	+448352965-01	+350274467-01
2.25	9.00	+907933437-01	+421204892-01	+334518536-01
2.25	9.25	+883147229-01	+395983042-01	+319525665-01
2.25	9.50	+859137061-01	+372554672-01	+305274341-01
2.25	9.75	+835906987-01	+350792017-01	+291739253-01
2.25	0.00	+813453104-01	+330573264-01	+278892441-01
2.50	2.75	+273288426-01	+322921419-01	+150275814-01
2.50	3.00	+499400064-01	+566326781-01	+272023708-01
2.50	3.25	+682158082-01	+741686783-01	+367706684-01
2.50	3.50	+826728884-01	+861068834-01	+440587158-01
2.50	3.75	+938585341-01	+935747856-01	+494100844-01
2.50	4.00	+102295580+00	+975600401-01	+531521114-01
2.50	4.25	+108456227+00	+988935044-01	+555797764-01
2.50	4.50	+112752573+00	+982547134-01	+569498276-01
2.50	4.75	+115536230+00	+961878955-01	+574805147-01
2.50	5.00	+117102572+00	+931215126-01	+573542379-01
2.50	5.25	+117696984+00	+893879291-01	+567214890-01
2.50	5.50	+117521658+00	+852413630-01	+557051592-01
2.50	5.75	+116742161+00	+808734945-01	+544047398-01
2.50	6.00	+115493425+00	+764265392-01	+529001763-01
2.50	6.25	+113884959+00	+720040976-01	+512552164-01

A	B	Z, 22	Z, 33	Z, 44
2.50	6.50	+112005328+00	+676797898-01	+495203308-01
2.50	6.75	+109925931+00	+635043708-01	+477351495-01
2.50	7.00	+107704163+00	+595110302-01	+459305394-01
2.50	7.25	+105385971+00	+557199067-01	+441302597-01
2.50	7.50	+103008038+00	+521413244-01	+423523865-01
2.50	7.75	+100599489+00	+487785115-01	+406104238-01
2.50	8.00	+981833382-01	+456295285-01	+389142468-01
2.50	8.25	+957776494-01	+426888638-01	+372708384-01
2.50	8.50	+933964772-01	+399485301-01	+356849144-01
2.50	8.75	+910506391-01	+373989849-01	+341593975-01
2.50	9.00	+887483343-01	+350298054-01	+326958176-01
2.50	9.25	+864956617-01	+328300801-01	+312946334-01
2.50	9.50	+842970230-01	+307888776-01	+299554759-01
2.50	9.75	+821554542-01	+288953830-01	+286773576-01
2.50	0.00	+800729186-01	+271391277-01	+274588391-01
2.75	3.00	+233519855-01	+252522887-01	+126244955-01
2.75	3.25	+428433783-01	+442411424-01	+229311543-01
2.75	3.50	+587922115-01	+579116729-01	+311248019-01
2.75	3.75	+716036145-01	+672156426-01	+374614626-01
2.75	4.00	+817024173-01	+730285929-01	+422077927-01
2.75	4.25	+894959722-01	+761141930-01	+456185331-01
2.75	4.50	+953555991-01	+771155507-01	+479251490-01
2.75	4.75	+996091955-01	+765605937-01	+493313097-01
2.75	5.00	+102540203+00	+748742697-01	+500122610-01
2.75	5.25	+104390005+00	+723930648-01	+501163547-01
2.75	5.50	+105361960+00	+693795447-01	+497676231-01
2.75	5.75	+105626012+00	+660357384-01	+490687269-01
2.75	6.00	+105323334+00	+625148752-01	+481039328-01
2.75	6.25	+104570627+00	+589312587-01	+469419090-01
2.75	6.50	+103463997+00	+553686173-01	+456382149-01
2.75	6.75	+102082327+00	+518867548-01	+442375124-01

A	B	Z, 22	Z, 33	Z, 44
2.75	7.00	+100490172+00	+485270981-01	+427754376-01
2.75	7.25	+987402439-01	+453168718-01	+412802383-01
2.75	7.50	+968754303-01	+422726890-01	+397740830-01
2.75	7.75	+949305643-01	+394031178-01	+382742165-01
2.75	8.00	+929338154-01	+367108915-01	+367938683-01
2.75	8.25	+909078941-01	+341944654-01	+353430333-01
2.75	8.50	+888710194-01	+318493175-01	+339290929-01
2.75	8.75	+868377409-01	+296688620-01	+325573498-01
2.75	9.00	+848195810-01	+276451899-01	+312314339-01
2.75	9.25	+828255970-01	+257696551-01	+299536524-01
2.75	9.50	+808628240-01	+240331799-01	+287252734-01
2.75	9.75	+789366422-01	+224266627-01	+275467487-01
2.75	0.00	+770510901-01	+209410937-01	+264178982-01
3.00	3.25	+200100019-01	+195890377-01	+106235103-01
3.00	3.50	+368198228-01	+342262473-01	+193439646-01
3.00	3.75	+507010107-01	+446965365-01	+263354259-01
3.00	4.00	+619807074-01	+517613037-01	+318040630-01
3.00	4.25	+709970684-01	+561095495-01	+359614484-01
3.00	4.50	+780740429-01	+583379704-01	+390093529-01
3.00	4.75	+835083623-01	+589478412-01	+411318425-01
3.00	5.00	+875641015-01	+583506814-01	+424920006-01
3.00	5.25	+904716626-01	+568781845-01	+432313403-01
3.00	5.50	+924292609-01	+547934833-01	+434707852-01
3.00	5.75	+936056794-01	+523023385-01	+433124424-01
3.00	6.00	+941435100-01	+495633455-01	+428416949-01
3.00	6.25	+941625269-01	+466969563-01	+421293754-01
3.00	6.50	+937628718-01	+437930659-01	+412338382-01
3.00	6.75	+930279442-01	+409174778-01	+402028295-01
3.00	7.00	+920269940-01	+381170759-01	+390751834-01
3.00	7.25	+908173584-01	+354241771-01	+378822696-01
3.00	7.50	+894464202-01	+328597891-01	+366492870-01

A	B	Z. 22	Z. 33	Z. 44
3.00	7.75	+879532158-01	+304364702-01	+353962973-01
3.00	8.00	+863698520-01	+281603554-01	+341391599-01
3.00	8.25	+847226490-01	+260329191-01	+328902680-01
3.00	8.50	+830331388-01	+240522422-01	+316591964-01
3.00	8.75	+813188564-01	+222140226-01	+304532102-01
3.00	9.00	+795940538-01	+205123416-01	+292777241-01
3.00	9.25	+778702308-01	+189402418-01	+281366367-01
3.00	9.50	+761566243-01	+174902136-01	+270326370-01
3.00	9.75	+744606064-01	+161544394-01	+259674525-01
3.00	0.00	+727879864-01	+149251204-01	+249420334-01
3.25	3.50	+171785738-01	+150373409-01	+894756407-02
3.25	3.75	+316778987-01	+261577302-01	+163206138-01
3.25	4.00	+437335790-01	+340145020-01	+222688851-01
3.25	4.25	+536157145-01	+392217257-01	+269615294-01
3.25	4.50	+615990103-01	+423261421-01	+305693241-01
3.25	4.75	+679455957-01	+437971196-01	+332543966-01
3.25	5.00	+728959926-01	+440270866-01	+351647944-01
3.25	5.25	+766652675-01	+433373391-01	+364322063-01
3.25	5.50	+794422725-01	+419864487-01	+371715508-01
3.25	5.75	+813906825-01	+401792916-01	+374816812-01
3.25	6.00	+826509931-01	+380758781-01	+374466848-01
3.25	6.25	+833429035-01	+357993215-01	+371374272-01
3.25	6.50	+835678235-01	+334428664-01	+366131753-01
3.25	6.75	+834112965-01	+310758106-01	+359231727-01
3.25	7.00	+829452002-01	+287485571-01	+351080648-01
3.25	7.25	+822297626-01	+264966506-01	+342012131-01
3.25	7.50	+813153134-01	+243442113-01	+332298304-01
3.25	7.75	+802438337-01	+223064788-01	+322159984-01
3.25	8.00	+790502394-01	+203920731-01	+311774920-01
3.25	8.25	+777635420-01	+186046079-01	+301285388-01
3.25	8.50	+764077625-01	+169440668-01	+290804051-01

A	B	Z. 22	Z. 33	Z. 44
3.25	8.75	+750027683-01	+154078281-01	+280419373-01
3.25	9.00	+735649234-01	+139914508-01	+270199786-01
3.25	9.25	+721076905-01	+126892846-01	+260197474-01
3.25	9.50	+706420858-01	+114949379-01	+250451259-01
3.25	9.75	+691770860-01	+104016521-01	+240989151-01
3.25	0.00	+677199771-01	+940249582-02	+231830486-01
3.50	3.75	+147650096-01	+113899034-01	+753825639-02
3.50	4.00	+272697010-01	+196876960-01	+137666068-01
3.50	4.25	+377204462-01	+254365325-01	+188146714-01
3.50	4.50	+463439492-01	+291334926-01	+228230645-01
3.50	4.75	+533670162-01	+312143600-01	+259314523-01
3.50	5.00	+590048271-01	+320496475-01	+282716091-01
3.50	5.25	+634547388-01	+319471437-01	+299637379-01
3.50	5.50	+668936519-01	+311576413-01	+311149503-01
3.50	5.75	+694775658-01	+298821837-01	+318190475-01
3.50	6.00	+713423987-01	+282794568-01	+321570942-01
3.50	6.25	+726055148-01	+264728705-01	+321984114-01
3.50	6.50	+733675475-01	+245568935-01	+320017648-01
3.50	6.75	+737143265-01	+226026032-01	+316166102-01
3.50	7.00	+737187538-01	+206623308-01	+310843084-01
3.50	7.25	+734425172-01	+187736620-01	+304392346-01
3.50	7.50	+729376786-01	+169625914-01	+297098095-01
3.50	7.75	+722480557-01	+152462395-01	+289193874-01
3.50	8.00	+714104762-01	+136348398-01	+280870760-01
3.50	8.25	+704557959-01	+121335312-01	+272283879-01
3.50	8.50	+694098550-01	+107436249-01	+263558601-01
3.50	8.75	+682942172-01	+946367609-02	+254795192-01
3.50	9.00	+671268684-01	+829030963-02	+246073386-01
3.50	9.25	+659227514-01	+721882831-02	+237455693-01
3.50	9.50	+646942720-01	+624367719-02	+228990602-01
3.50	9.75	+634516838-01	+535882750-02	+220714984-01

A	B	Z. 22	Z. 33	Z. 44
3.50	0.00	+622034316-01	+455805286-02	+212656211-01
3.75	4.00	+126983234-01	+848083126-02	+635008944-02
3.75	4.25	+234786232-01	+145309341-01	+116061503-01
3.75	4.50	+325226321-01	+186003289-01	+158806839-01
3.75	4.75	+400229237-01	+210915959-01	+192916367-01
3.75	5.00	+461691425-01	+223525584-01	+219543529-01
3.75	5.25	+511400069-01	+226759377-01	+239768976-01
3.75	5.50	+550991179-01	+223030366-01	+254576105-01
3.75	5.75	+581932459-01	+214292055-01	+264841438-01
3.75	6.00	+605521469-01	+202100969-01	+271334074-01
3.75	6.25	+622892826-01	+187678059-01	+274720680-01
3.75	6.50	+635030528-01	+171966176-01	+275573554-01
3.75	6.75	+642782359-01	+155680841-01	+274379921-01
3.75	7.00	+646875105-01	+139354545-01	+271551778-01
3.75	7.25	+647929398-01	+123373485-01	+267435459-01
3.75	7.50	+646473287-01	+108009237-01	+262320328-01
3.75	7.75	+642954971-01	+934437698-02	+256447005-01
3.75	8.00	+637753805-01	+797906629-02	+250014393-01
3.75	8.25	+631190554-01	+671108831-02	+243186292-01
3.75	8.50	+623535509-01	+554268310-02	+236096562-01
3.75	8.75	+615016456-01	+447321264-02	+228854189-01
3.75	9.00	+605824681-01	+350004298-02	+221547115-01
3.75	9.25	+596120707-01	+261912337-02	+214245839-01
3.75	9.50	+586038849-01	+182551695-02	+207006270-01
3.75	9.75	+575691384-01	+111372388-02	+199872309-01
3.75	0.00	+565171827-01	+477991597-03	+192877874-01
4.00	4.25	+109228669-01	+617521221-02	+534680273-02
4.00	4.50	+202110360-01	+104514810-01	+977743286-02
4.00	4.75	+280249701-01	+131998545-01	+133895737-01
4.00	5.00	+345296555-01	+147457790-01	+162827457-01
4.00	5.25	+398852071-01	+153665728-01	+185528861-01

A	B	Z. 22	Z. 33	Z. 44
4.00	5.50	+442414580-01	+152931686-01	+202892273-01
4.00	5.75	+477351729-01	+147142717-01	+215727055-01
4.00	6.00	+504890087-01	+137814265-01	+224754041-01
4.00	6.25	+526115421-01	+126144254-01	+230606221-01
4.00	6.50	+541979361-01	+113064147-01	+233833273-01
4.00	6.75	+553309749-01	+992860092-02	+234908302-01
4.00	7.00	+560822335-01	+853434829-02	+234235372-01
4.00	7.25	+565133079-01	+716272126-02	+232157337-01
4.00	7.50	+566770194-01	+584142785-02	+228963566-01
4.00	7.75	+566184970-01	+458930783-02	+224896816-01
4.00	8.00	+563762214-01	+341833679-02	+220159891-01
4.00	8.25	+559829027-01	+233528019-02	+214921196-01
4.00	8.50	+554663313-01	+134293860-02	+209320136-01
4.00	8.75	+548500365-01	+441254745-03	+203471277-01
4.00	9.00	+541539402-01	-371940344-03	+197468421-01
4.00	9.25	+533948542-01	-110022221-02	+191387754-01
4.00	9.50	+525869596-01	-174813171-02	+185290804-01
4.00	9.75	+517421873-01	-232077053-02	+179226767-01
4.00	0.00	+508705593-01	-282356102-02	+173234644-01
4.25	4.50	+939411947-02	+436217273-02	+449896597-02
4.25	4.75	+173905293-01	+725308074-02	+822937233-02
4.25	5.00	+241310459-01	+897686012-02	+112759552-01
4.25	5.25	+297578639-01	+979564793-02	+137230020-01
4.25	5.50	+344071603-01	+992986634-02	+156507105-01
4.25	5.75	+382054738-01	+956107208-02	+171331409-01
4.25	6.00	+412679146-01	+883617822-02	+182372177-01
4.25	6.25	+436976028-01	+787204192-02	+190224534-01
4.25	6.50	+455858515-01	+676010811-02	+195411041-01
4.25	6.75	+470128043-01	+557067091-02	+198385929-01
4.25	7.00	+480483170-01	+435672955-02	+199540770-01
4.25	7.25	+487529430-01	+315732519-02	+199210753-01

A	B	Z. 22	Z. 33	Z. 44
4.25	7.50	+491789412-01	+290035774-02	+197681732-01
4.25	7.75	+493712669-01	+904957701-03	+195192992-01
4.25	8.00	+403684536-01	-116541180-03	+191949787-01
4.25	8.25	+492054703-01	-105702471-02	+108121727-01
4.25	8.50	+489044466-01	-101328127-02	+183850790-01
4.25	8.75	+484953615-01	-268504848-02	+179254957-01
4.25	9.00	+479965963-01	-337412708-02	+174431617-01
4.25	9.25	+474254716-01	-398381249-02	+169460890-01
4.25	9.50	+467966696-01	-451835074-02	+164408190-01
4.25	9.75	+461225930-01	-498259715-02	+159326643-01
4.25	10.00	+454137614-01	-538171430-02	+154250002-01
4.50	4.75	+307583422-02	+295003991-02	+378234824-02
4.50	5.00	+149533564-01	+477214215-02	+691931252-02
4.50	5.25	+207593844-01	+571393114-02	+948427184-02
4.50	5.50	+256154603-01	+598546838-02	+115487625-01
4.50	5.75	+296385268-01	+576111479-02	+131800579-01
4.50	6.00	+329360547-01	+518284960-02	+144398554-01
4.50	6.25	+356054498-01	+436430798-02	+153836879-01
4.50	6.50	+377338263-01	+339486295-02	+160608400-01
4.50	6.75	+393982972-01	+234357810-02	+165145557-01
4.50	7.00	+406665862-01	+126276804-02	+167824368-01
4.50	7.25	+415977938-01	+191151179-03	+168969264-01
4.50	7.50	+422432434-01	-843439007-03	+168858392-01
4.50	7.75	+426473148-01	-182178726-02	+167728801-01
4.50	8.00	+428482731-01	-273141137-02	+165781606-01
4.50	8.25	+428790052-01	-356498394-02	+163186498-01
4.50	8.50	+427677162-01	-431910346-02	+160086111-01
4.50	8.75	+425385379-01	-499323552-02	+156599702-01
4.50	9.00	+422121031-01	-558899571-02	+152826700-01
4.50	9.25	+418059971-01	-610944007-02	+148849464-01
4.50	9.50	+413352067-01	-655864119-02	+144736001-01

A	B	Z, 22	Z, 33	Z, 44
4.50	9.75	+408124705-01	-694126482-02	+140542066-01
4.50	0.00	+402486098-01	-726231323-02	+136313155-01
4.75	5.00	+693805629-02	+186280481-02	+317677998-02
4.75	5.25	+128480308-01	+287231545-02	+581135802-02
4.75	5.50	+178405663-01	+322864568-02	+796714066-02
4.75	5.75	+220224006-01	+309904855-02	+970490104-02
4.75	6.00	+254934877-01	+262056324-02	+110811975-01
4.75	6.25	+283454905-01	+190342152-02	+121475638-01
4.75	6.50	+306611749-01	+103476562-02	+129501987-01
4.75	6.75	+325144150-01	+822157707-04	+135300104-01
4.75	7.00	+339705488-01	-902786807-03	+139228523-01
4.75	7.25	+350869601-01	-138201258-02	+141598933-01
4.75	7.50	+359137596-01	-282787365-02	+142680364-01
4.75	7.75	+364945085-01	-372122357-02	+142703666-01
4.75	8.00	+368669315-01	-454953148-02	+141865851-01
4.75	8.25	+370636067-01	-530539066-02	+140334314-01
4.75	8.50	+371125838-01	-590525545-02	+138250564-01
4.75	8.75	+370379691-01	-658848457-02	+135733799-01
4.75	9.00	+368604295-01	-711650083-02	+132883910-01
4.75	9.25	+365976710-01	-757224676-02	+129784390-01
4.75	9.50	+362648206-01	-795962914-02	+126504592-01
4.75	9.75	+358747993-01	-828320002-02	+123101956-01
4.75	0.00	+354386156-01	-854782939-02	+119623741-01
5.00	5.25	+595571751-02	+103743846-02	+266533439-02
5.00	5.50	+110282091-01	+144017482-02	+487513131-02
5.00	5.75	+153150294-01	+136860705-02	+668404791-02
5.00	6.00	+189089062-01	+954880677-03	+814372230-02
5.00	6.25	+218958639-01	+305832383-03	+930176639-02
5.00	6.50	+243543272-01	-493737708-03	+102013004-01
5.00	6.75	+263548404-01	-137774251-02	+108808282-01
5.00	7.00	+279602325-01	-229572957-02	+113743610-01

A	B	Z, 22	Z, 33	Z, 44
5.00	7.25	+292260057-01	-321007107-02	+117116656-01
5.00	7.50	+302008880-01	-409351328-02	+119186037-01
5.00	7.75	+309274399-01	-492707231-02	+120174984-01
5.00	8.00	+314426782-01	-569826632-02	+120275118-01
5.00	8.25	+317786890-01	-639964332-02	+119650111-01
5.00	8.50	+319632141-01	-702760486-02	+118439184-01
5.00	8.75	+320201684-01	-758139865-02	+116760193-01
5.00	9.00	+319701342-01	-806237614-02	+114712563-01
5.00	9.25	+318307837-01	-847333284-02	+112379766-01
5.00	9.50	+316172835-01	-881809750-02	+109831714-01
5.00	9.75	+313426111-01	-910109285-02	+107126605-01
5.00	0.00	+310178712-01	-932711159-02	+104312754-01
5.25	5.50	+510762061-02	+421756825-03	+223372260-02
5.25	5.75	+945612257-02	+381669534-03	+408482429-02
5.25	6.00	+131313778-01	+714161949-05	+560030164-02
5.25	6.25	+162139916-01	-598364685-03	+682401253-02
5.25	6.50	+187781268-01	-135238028-02	+779606245-02
5.25	6.75	+208910234-01	-219042129-02	+855257021-02
5.25	7.00	+226129462-01	-306307322-02	+912566485-02
5.25	7.25	+239974431-01	-393337494-02	+954365511-02
5.25	7.50	+250917549-01	-477446382-02	+983127872-02
5.25	7.75	+259373248-01	-556757254-02	+100100083-01
5.25	8.00	+265703442-01	-630030993-02	+100983727-01
5.25	8.25	+270222971-01	-696524166-02	+101122790-01
5.25	8.50	+273204863-01	-755871465-02	+100653195-01
5.25	8.75	+274885344-01	-807992676-02	+996906459-02
5.25	9.00	+275468224-01	-853013375-02	+983331832-02
5.25	9.25	+275129098-01	-891207310-02	+966636115-02
5.25	9.50	+274018880-01	-922944570-02	+947515490-02
5.25	9.75	+272267244-01	-948661690-02	+926553833-02
5.25	0.00	+269985288-01	-968826942-02	+904238091-02

A	B	Z, 22	Z, 33	Z, 44
5.50	5.75	+437569027-02	-273081404-04	+186983345-02
5.50	6.00	+809889452-02	-380849003-03	+341845630-02
5.50	6.25	+112450610-01	-960447983-03	+468617576-02
5.50	6.50	+138842565-01	-168596060-02	+571021110-02
5.50	6.75	+160804773-01	-249449454-02	+652434793-02
5.50	7.00	+178914538-01	-333772458-02	+715885643-02
5.50	7.25	+193687491-01	-417937391-02	+764056576-02
5.50	7.50	+205580701-01	-499301634-02	+799305463-02
5.50	7.75	+214996784-01	-576012248-02	+823689321-02
5.50	8.00	+222288629-01	-646842175-02	+838991709-02
5.50	8.25	+227764257-01	-711051466-02	+846750877-02
5.50	8.50	+231691595-01	-768273276-02	+848287173-02
5.50	8.75	+234303017-01	-818420732-02	+844728947-02
5.50	9.00	+235799649-01	-861613820-02	+837037082-02
5.50	9.25	+236355112-01	-898116892-02	+826026357-02
5.50	9.50	+236119067-01	-928294557-02	+812385468-02
5.50	9.75	+235220250-01	-952571904-02	+796693897-02
5.50	0.00	+233769379-01	-971411377-02	+779438490-02
5.75	6.00	+374440966-02	-345149926-03	+156337417-02
5.75	6.25	+692813380-02	-911157189-03	+285727989-02
5.75	6.50	+961733032-02	-162015573-02	+391619968-02
5.75	6.75	+118728762-01	-241084923-02	+477168463-02
5.75	7.00	+137500150-01	-323598579-02	+545218820-02
5.75	7.25	+152983512-01	-406001681-02	+598308197-02
5.75	7.50	+165620429-01	-485695320-02	+638677564-02
5.75	7.75	+175801428-01	-560853174-02	+668291605-02
5.75	8.00	+183869954-01	-630261091-02	+688861258-02
5.75	8.25	+190126692-01	-693183893-02	+701868238-02
5.75	8.50	+194833940-01	-749253749-02	+708589590-02
5.75	8.75	+198219759-01	-798379648-02	+710120999-02
5.75	9.00	+200481936-01	-840673393-02	+707398750-02

A	B	Z. 22	Z. 33	Z. 44
5.75	9.25	+201791662-01	-876392846-02	+701220320-02
5.75	9.50	+202296747-01	-905893360-02	+692262123-02
5.75	9.75	+202124678-01	-929593738-02	+681096276-02
5.75	0.00	+201385117-01	-947946302-02	+668204473-02
6.00	6.25	+320038989-02	-560705670-03	+130558404-02
6.00	6.50	+591922614-02	-126132697-02	+238529515-02
6.00	6.75	+821440104-02	-204213829-02	+326856052-02
6.00	7.00	+101387635-01	-285697524-02	+398209187-02
6.00	7.25	+117399960-01	-367099940-02	+454983739-02
6.00	7.50	+130607328-01	-445869334-02	+499305881-02
6.00	7.75	+141388095-01	-520205724-02	+533047509-02
6.00	8.00	+150076098-01	-588909437-02	+557845694-02
6.00	8.25	+156964441-01	-651250277-02	+575123612-02
6.00	8.50	+162309438-01	-706859867-02	+586112247-02
6.00	8.75	+166334482-01	-755642640-02	+591871574-02
6.00	9.00	+169233712-01	-797704259-02	+593310538-02
6.00	9.25	+171175439-01	-833293329-02	+591205702-02
6.00	9.50	+172305335-01	-862757704-02	+586218508-02
6.00	9.75	+172749155-01	-886507091-02	+578909925-02
6.00	0.00	+172615378-01	-904986918-02	+569754700-02
6.25	6.50	+273203303-02	-697492643-03	+108900110-02
6.25	6.75	+505077202-02	-147359386-02	+198884855-02
6.25	7.00	+700676892-02	-228321199-02	+272459508-02
6.25	7.25	+864585402-02	-309223750-02	+331882347-02
6.25	7.50	+100091651-01	-387560910-02	+379167419-02
6.25	7.75	+111333418-01	-461561653-02	+416095681-02
6.25	8.00	+120508041-01	-530040339-02	+444230302-02
6.25	8.25	+127900945-01	-592272751-02	+464935215-02
6.25	8.50	+133762308-01	-647889529-02	+479394045-02
6.25	8.75	+138310630-01	-696791081-02	+488629226-02
6.25	9.00	+141736164-01	-739075941-02	+493520337-02

A	B	7. 22	7. 33	7. 44
6.25	9.25	+144204148-01	-774984862-02	+494821168-02
6.25	9.50	+145857756-01	-804855977-02	+493175388-02
6.25	9.75	+146820872-01	-829090706-02	+489131179-02
6.25	0.00	+147200422-01	-848125082-02	+483153496-02
6.50	6.75	+232926564-02	-774494663-03	+907269403-03
6.50	7.00	+430413124-02	-158196552-02	+165629432-02
6.50	7.25	+596864558-02	-238902446-02	+226835412-02
6.50	7.50	+736250192-02	-317108418-02	+276251258-02
6.50	7.75	+852116503-02	-391071230-02	+315569145-02
6.50	8.00	+947610991-02	-459621388-02	+346279924-02
6.50	8.25	+102551106-01	-522039818-02	+369688421-02
6.50	8.50	+108825657-01	-577957431-02	+386930578-02
6.50	8.75	+113798261-01	-627269616-02	+398990478-02
6.50	9.00	+117655152-01	-670068016-02	+406717120-02
6.50	9.25	+120558311-01	-706585029-02	+410840016-02
6.50	9.50	+122648329-01	-737149547-02	+411984000-02
6.50	9.75	+124046941-01	-762152766-02	+410682339-02
6.50	0.00	+124859433-01	-782022371-02	+407388981-02
6.75	7.00	+198332216-02	-806921219-03	+754977406-03
6.75	7.25	+366304976-02	-161360343-02	+137770841-02
6.75	7.50	+507748344-02	-239593141-02	+188622708-02
6.75	7.75	+626095292-02	-313676664-02	+229660200-02
6.75	8.00	+724400345-02	-382456517-02	+262303553-02
6.75	8.25	+805365549-02	-445220867-02	+287799807-02
6.75	8.50	+871369063-02	-501599802-02	+307237474-02
6.75	8.75	+924495859-02	-551484541-02	+321562212-02
6.75	9.00	+966567252-02	-594959472-02	+331591805-02
6.75	9.25	+999169945-02	-632248079-02	+338030873-02
6.75	9.50	+102368259-01	-663669921-02	+341484275-02
6.75	9.75	+104130057-01	-689606487-02	+342469603-02
6.75	0.00	+105305841-01	-710475034-02	+341428381-02

A	B	Z, 22	Z, 33	Z, 44
7.00	7.25	+168656727-02	-806355328-03	+627521298-03
7.00	7.50	+311334747-02	-159000663-02	+114464331-02
7.00	7.75	+431357294-02	-233260964-02	+156661704-02
7.00	8.00	+531688969-02	-302328711-02	+190696554-02
7.00	8.25	+614957685-02	-365498298-02	+217759512-02
7.00	8.50	+683481167-02	-422400749-02	+238892802-02
7.00	8.75	+739294273-02	-472922504-02	+255003823-02
7.00	9.00	+784177573-02	-517140889-02	+266879331-02
7.00	9.25	+819683990-02	-555270423-02	+275198580-02
7.00	9.50	+847164522-02	-587620902-02	+280546037-02
7.00	9.75	+867791870-02	-614563762-02	+283422916-02
7.00	0.00	+882581829-02	-636506438-02	+284257733-02
7.25	7.50	+143234746-02	-783806210-03	+520988698-03
7.25	7.75	+264265430-02	-152802048-02	+949918027-03
7.25	8.00	+365969521-02	-222143343-02	+129965905-02
7.25	8.25	+450903146-02	-285706549-02	+158157516-02
7.25	8.50	+521324378-02	-343122853-02	+180563580-02
7.25	8.75	+579219279-02	-394275267-02	+198054292-02
7.25	9.00	+626327581-02	-439233651-02	+211385519-02
7.25	9.25	+664168675-02	-478203818-02	+221211341-02
7.25	9.50	+694065710-02	-511485490-02	+228095616-02
7.25	9.75	+717168231-02	-539439932-02	+232522840-02
7.25	0.00	+734472949-02	-562464373-02	+234908072-02
7.50	7.75	+121486531-02	-745177276-03	+432058813-03
7.50	8.00	+224018467-02	-144069173-02	+787437186-03
7.50	8.25	+310082176-02	-207964267-02	+107697620-02
7.50	8.50	+381878030-02	-265835533-02	+131020984-02
7.50	8.75	+441343785-02	-317561944-02	+149547574-02
7.50	9.00	+490179390-02	-363207121-02	+164003226-02
7.50	9.25	+529870815-02	-402967713-02	+175017038-02

A	B	Z, 22	Z, 33	Z, 44
7.50	9.50	+561713466-02	-437133757-02	+183132384-02
7.50	9.75	+586833733-02	-466056030-02	+188816974-02
7.50	0.00	+606208964-02	-490121469-02	+192472200-02
7.75	8.00	+102907204-02	-696660408-03	+357917024-03
7.75	8.25	+189654192-02	-133798909-02	+652034633-03
7.75	8.50	+262385094-02	-192032745-02	+891467070-03
7.75	8.75	+322990884-02	-244243566-02	+108420122-02
7.75	9.00	+373132191-02	-290488168-02	+123720154-02
7.75	9.25	+414262321-02	-330955155-02	+135651591-02
7.75	9.50	+447649116-02	-365924474-02	+144737549-02
7.75	9.75	+474395979-02	-395736807-02	+151429094-02
7.75	0.00	+495460884-02	-420768485-02	+156113895-02
8.00	8.25	+870574345-03	-642567878-03	+296181123-03
8.00	8.50	+160354867-02	-122740719-02	+539338988-03
8.00	8.75	+221737642-02	-175325088-02	+737122192-03
8.00	9.00	+272828184-02	-222060854-02	+896211825-03
8.00	9.25	+315047550-02	-263128135-02	+102241800-02
8.00	9.50	+349636679-02	-298797743-02	+112077479-02
8.00	9.75	+377676084-02	-329399865-02	+119562807-02
8.00	0.00	+400104583-02	-355300676-02	+125071889-02
8.25	8.50	+735553636-03	-586107884-03	+244838016-03
8.25	8.75	+135409769-02	-111446763-02	+445657207-03
8.25	9.00	+187148338-02	-158553258-02	+608865112-03
8.25	9.25	+230160788-02	-200102703-02	+740042448-03
8.25	9.50	+265561421-02	-236356435-02	+844030434-03
8.25	9.75	+294708458-02	-267635043-02	+925014746-03
8.25	0.00	+318221638-02	-294294278-02	+986602309-03
8.50	8.75	+620695061-03	-529613250-03	+202189155-03
8.50	9.00	+114202065-02	-100313457-02	+367874418-03
8.50	9.25	+157756720-02	-142221329-02	+502414756-03
8.50	9.50	+193921891-02	-178937551-02	+610465219-03

A	B	Z, 22	Z, 33	Z, 44
8.50	9.75	+223733694-02	-210772806-02	+696054718-03
8.50	0.00	+248093331-02	-238073121-02	+762659901-03
8.75	9.00	+523125212-03	-474729478-03	+166803653-03
8.75	9.25	+961972697-03	-896154644-03	+303367680-03
8.75	9.50	+132817308-02	-126671606-02	+414166976-03
8.75	9.75	+163187278-02	-158942768-02	+503079138-03
8.75	0.00	+188189958-02	-186765061-02	+573453115-03
9.00	9.25	+440357147-03	-422568256-03	+137477943-03
9.00	9.50	+809329933-03	-795334355-03	+249931783-03
9.00	9.75	+111685399-02	-112122158-02	+341092503-03
9.00	0.00	+137157811-02	-140349702-02	+414185819-03
9.25	9.50	+370241998-03	-373832018-03	+113201261-03
9.25	9.75	+680099120-03	-701763924-03	+205715674-03
9.25	10.00	+938044237-03	-986970507-03	+280649413-03
9.50	9.75	+310926051-03	-328914317-03	+931260371-04
9.50	10.00	+570837532-03	-615996955-03	+169167887-03
9.75	10.00	+260812979-03	-287979447-03	+765425990-04