Functions of Continuous R.V.3: Difficult If X is a CRU and Y = g(X), then Y 13 also a R-V.

Example

a) Find CDF of Y

$$F_{\chi}(x) = \frac{x-\alpha}{b-\alpha} = \frac{x-0}{1-0} = x , f(x)=1$$

$$Q_{\chi} = [0,1], Q_{\gamma} = [1,e]$$

$$F(Y) = P(Y \leq y)$$

$$= P(e^{x} \leq y)$$

$$= P(X \leq ln c_X)$$

b) Find pag of Y

() Find ELY]:

Using Lotus:

$$z = y \cdot e^{-1} \cdot e^{-1} \cdot e^{-1} = e^{-1}$$

Example

het 
$$f_X(x) = \begin{cases} 4x^3 & 0 \le x \le 1 \\ 0 & \text{otherwise} \end{cases}$$

and let 
$$Y = \frac{1}{X}$$
. Find PDF.

Method 1: Like above we first find CDF Note Ry=[1,00[

$$F(Y) = P(Y \leq y)$$

$$= P(X \leq y)$$

$$= F(X \leq y)$$

$$= F_{X}(y) = \int_{0}^{y} 4x^{3} dx = x^{4} \int_{0}^{y}$$

$$= \frac{1}{y^{4}}, so$$

$$f_{\gamma}(\gamma) = \begin{cases} \frac{4}{5} & 0 \\ 0 & \text{else} \end{cases}$$

Method 2: The Method of Transformation

Let X be a CRV and g: R-oR is a Strictly monotonic and differentiable

$$f_{\gamma}(y) = \frac{4x^3}{|-\frac{1}{x^2}|} = 4x^5 = 4(\frac{1}{y})^5 = \frac{4}{45}$$

Exponential Distribution:

A CRV X is said to be exponentially distributed with 1>0, shown as X~ Exponential (1), if its PDF is

$$f_{X}(x) = \begin{cases} \lambda e^{-\lambda x} & , x>0 \\ 0 & \end{cases}$$

Is aften used to model time between events het's find CDF:

$$\int_{0}^{x} \lambda e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u} du = -\frac{1}{\lambda} \cdot \lambda e^{-\lambda u} \int_{0}^{x} e^{-\lambda u}$$

nis called the vate parameter.

$$E(x) = \frac{1}{\lambda}$$

$$Vow(\lambda) = \frac{2}{\lambda^2}$$

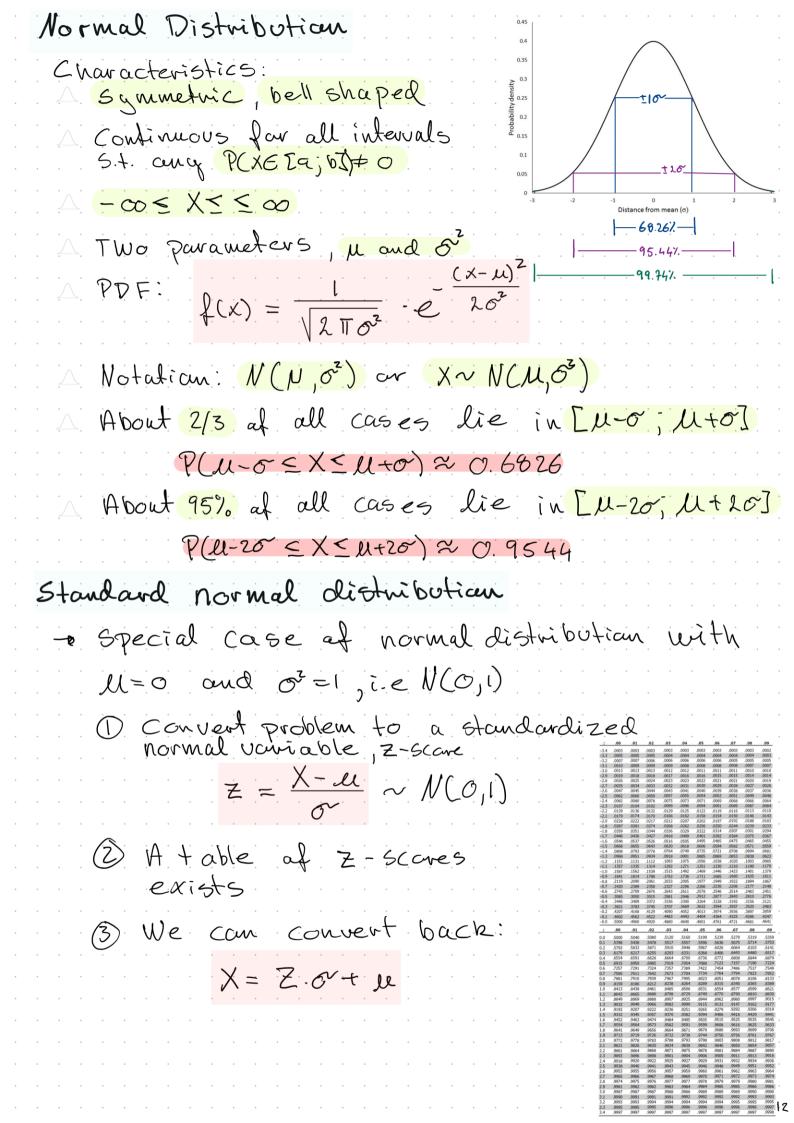
Example

Jobs are sent to printer at a vale of 3 jobs per hour (on average)

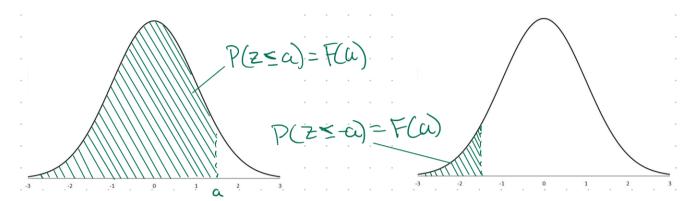
a) What is expected time between yobs:  $E(T) = \frac{1}{3} = \frac{1}{3}$ 

b) What is probability that next job is sent Within 5 minutes?

P(T< 1/12) = F(12) = 1-e-3-12 = 1-e-14 = 0.22



## Rules:



Example:

Find 
$$P(Z \le a)$$
 for  $a = \begin{cases} -1.65 \\ -1.00 \end{cases}$   
 $P(Z \le -1.65) = 0.0495$ 

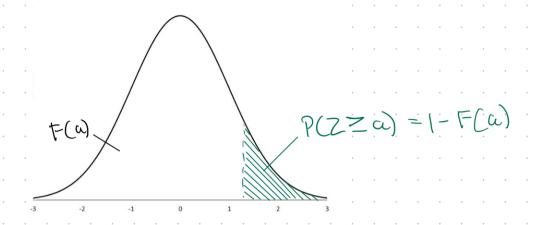
Find a for (0.6026 0.9750 0.3446

$$P(Z \leq a) = 0.6026$$

$$a = 1.96$$

|   | .00  | .01  | .02  | .03   | .04  | .05  | .06   | .07   | .08   | .09  |
|---|--|--|--|---|--|--|---|---|---|--|
| -3.4  | .0003  | .0003  | .0003  | .0003   | .0003  | .0003  | .0003   | .0003   | .0003   | .0002  |
| -3.3  | .0005  | .0005  | .0005  | .0004   | .0004  | .0004  | .0004   | .0004   | .0004   | .0003  |
| -3.2  | .0007  | .0007  | .0006  | .0006   | .0006  | .0006  | .0006   | .0005   | .0005   | .0005  |
| -3.1  | .0010  | .0009  | .0009  | .0009   | .0008  | .0008  | .0008   | .0008   | .0007   | .0007  |
| -3.0  | .0013  | .0013  | .0013  | .0012   | .0012  | .0011  | .0011   | .0011   | .0010   | .0010  |
| -2.9<br>-2.8  | .0019  | .0018  | .0018  | .0017   | .0016  | .0016  | .0015   | .0015   | .0014   | .0014  |
| -2.8<br>-2.7  | .0026  | .0025  | .0024  | .0023   | .0023  | .0022  | .0021   | .0021   | .0020   | .0019  |
| -2.6  | .0035  | .0045  | .0033  | .0032   | .0031  | .0030  | .0029   | .0028   | .0027   | .0026  |
| -2.5  | .0062  | .0060  | .0059  | .0057   | .0055  | .0054  | .0052   | .0051   | .0037   | .0048  |
| -2.4  | .0082  | .0080  | .0078  | .0075   | .0073  | .0071  | .0069   | .0068   | .0066   | .0064  |
| -2.3  | .0107  | .0104  | .0102  | .0099   | .0096  | .0094  | .0091   | .0089   | .0087   | .0084  |
| -2.2  | .0139  | .0136  | .0132  | .0129   | .0125  | .0122  | .0119   | .0116   | .0113   | .0110  |
| -2.1  | .0179  | .0174  | .0170  | .0166   | .0162  | .0158  | .0154   | .0150   | .0146   | .0143  |
| -2.0  | .0228  | .0222  | .0217  | .0212   | .0207  | .0202  | .0197   | .0192   | .0188   | .0183  |
| -1.9  | .0287  | .0281  | .0274  | .0268   | .0262  | .0256  | .0250   | .0244   | .0239   | .0233  |
| -1.8<br>-1.7  | .0359  | .0351  | .0344  | .0336   | .0329  | .0322  | .0314   | .0307   | .0301   | .0294  |
| -1.6  | .0548  | .0537  | .0526  | .0516   | .0505  | .0495  | .0392   | .0304   | .0465   | .0367  |
| -1.5  | .0668  | .0655  | .0643  | .0630   | .0618  | .0606  | .0594   | .0582   | .0571   | .0559  |
| -1.4  | .0808  | .0793  | .0778  | .0764   | .0749  | .0735  | .0721   | .0708   | .0694   | .0681  |
| -1.3  | .0968  | .0951  | .0934  | .0918   | .0901  | .0885  | .0869   | .0853   | .0838   | .0823  |
| -1.2  | .1151  | .1131  | .1112  | .1093   | .1075  | .1056  | .1038   | .1020   | .1003   | .0985  |
| -1.1  | .1357  | .1335  | .1314  | .1292   | .1271  | .1251  | .1230   | .1210   | .1190   | .1170  |
| -1.0  | .1587  | .1562  | .1539  | .1515   | .1492  | .1469  | .1446   | .1423   | .1401   | .1379  |
| -0.9  | .1841  | .1814  | .1788  | .1762   | .1736  | .1711  | .1685   | .1660   | .1635   | .1611  |
| -0.8<br>-0.7  | .2119  | .2090  | .2061  | .2033   | .2005  | .1977  | .1949   | .1922   | .1894   | .1867  |
| -0.6  | .2743  | .2709  | .2676  | .2643   | .2611  | .2578  | .2546   | .2514   | .2483   | .2451  |
| -0.5  | .3085  | .3050  | .3015  | .2981   | .2946  | .2912  | .2877   | .2843   | .2810   | .2776  |
| -0.4  | .3446  | .3409  | .3372  | .3336   | .3300  | .3264  | .3228   | .3192   | .3156   | .3121  |
| -0.3  | .3821  | .3783  | .3745  | .3707   | .3669  | .3632  | .3594   | .3557   | .3520   | .3483  |
| -0.2  | .4207  | .4168  | .4129  | .4090   | .4052  | .4013  | .3974   | .3936   | .3897   | .3859  |
| -0.1  | .4602  | .4562  | .4522  | .4483   | .4443  | .4404  | .4364   | .4325   | .4286   | .4247  |
| -0.0  | .5000  | .4960  | .4920  | .4880   | .4840  | .4801  | .4761   | .4721   | .4681   | .4641  |
|   | .00  | .01  | .02  | .03   | .04  | .05  | .06   | .07   | .08   | .09  |
|   | FOOO   | E040   | FOOO   | E120  | E160   | E100   | E220  | E270  | E210  | ESEO   |
| 0.0   | .5000  | .5040  | .5080  | .5120   | .5160  | .5199  | .5239   | .5279   | .5319   | .5359  |
| 0.1   | .5398  | .5438  | .5478  | .5517   | .5557  | .5596  | .5636   | .5675   | .5714   | .5753  |
| 0.1   | .5398<br>.5793   | .5438<br>.5832   | .5478<br>.5871   | .5517<br>.5910  | .5557<br>.5948   | .5596<br>.5987   | .5636<br>.6026  | .5675<br>.6064  | .5714<br>.6103  | .5753<br>.6141   |
| 0.1<br>0.2<br>0.3   | .5398<br>.5793<br>.6179  | .5438<br>.5832<br>.6217  | .5478<br>.5871<br>.6255  | .5517<br>.5910<br>.6293   | .5557<br>.5948<br>.6331  | .5596<br>.5987<br>.6368  | .5636<br>.6026<br>.6406   | .5675<br>.6064<br>.6443   | .5714<br>.6103<br>.6480   | .5753<br>.6141<br>.6517  |
| 0.1   | .5398<br>.5793   | .5438<br>.5832   | .5478<br>.5871   | .5517<br>.5910  | .5557<br>.5948   | .5596<br>.5987   | .5636<br>.6026  | .5675<br>.6064  | .5714<br>.6103  | .5753<br>.6141   |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6  | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257   | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291   | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324   | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357  | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389   | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422   | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454  | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486  | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517  | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549   |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6  | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257   | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611  | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642  | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673   | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389   | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734  | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764   | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486  | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823   | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549   |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7   | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881   | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910   | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939   | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673   | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389<br>.7704<br>.7995   | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023   | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8051  | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794   | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106  | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133   |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8  | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8159  | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910<br>.8186  | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939   | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673<br>.7967<br>.8238   | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389<br>.7704<br>.7995<br>.8264  | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023<br>.8289  | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8051<br>.8315   | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340   | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365   | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133<br>.8389  |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9   | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8159  | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910<br>.8186<br>.8438   | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212  | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673<br>.7967<br>.8238<br>.8485  | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389<br>.7704<br>.7995<br>.8264<br>.8508   | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023<br>.8289<br>.8531   | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8051<br>.8315   | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340   | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365   | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133<br>.8389  |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0  | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8159<br>.8413   | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910<br>.8186<br>.8438   | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461   | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673<br>.7967<br>.8238<br>.8485<br>.8708   | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389<br>.7704<br>.7995<br>.8264<br>.8508<br>.8729  | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023<br>.8289<br>.8531   | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8051<br>.8315<br>.8554  | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340<br>.8577<br>.8790   | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365<br>.8599  | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133<br>.8389<br>.8621   |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1   | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8159<br>.8413<br>.8643  | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910<br>.8186<br>.8438<br>.8665<br>.8869   | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461<br>.8686  | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673<br>.7967<br>.8238<br>.8485<br>.8708   | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389<br>.7704<br>.7995<br>.8264<br>.8508<br>.8729  | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023<br>.8289<br>.8531<br>.8749  | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8051<br>.8315<br>.8554<br>.8770   | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340<br>.8577<br>.8790   | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365<br>.8599<br>.8810   | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133<br>.8389<br>.8621<br>.8830  |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2  | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8159<br>.8413<br>.8643<br>.8849   | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910<br>.8186<br>.8438<br>.8665<br>.8869   | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461<br>.8686<br>.8888<br>.9066  | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673<br>.7967<br>.8238<br>.8485<br>.8708<br>.8907  | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389<br>.7704<br>.7995<br>.8264<br>.8508<br>.8729<br>.8925   | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023<br>.8289<br>.8531<br>.8749<br>.8944   | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8051<br>.8315<br>.8554<br>.8770<br>.8962  | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340<br>.8577<br>.8790<br>.8980  | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365<br>.8599<br>.8810<br>.8997  | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133<br>.8389<br>.8621<br>.8830<br>.9015   |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2<br>1.3   | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8159<br>.8413<br>.8643  | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910<br>.8186<br>.8438<br>.8665<br>.8869<br>.9049  | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461<br>.8686<br>.8888<br>.9066  | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673<br>.7967<br>.8238<br>.8485<br>.8708   | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389<br>.7704<br>.7995<br>.8264<br>.8508<br>.8729  | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023<br>.8289<br>.8531<br>.8749<br>.8944<br>.9115  | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8051<br>.8315<br>.8554<br>.8770   | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340<br>.8577<br>.8790   | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365<br>.8599<br>.8810   | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133<br>.8389<br>.8621<br>.8830<br>.9015<br>.9177  |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2  | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8159<br>.8413<br>.8643<br>.8849<br>.9032  | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910<br>.8186<br>.8438<br>.8665<br>.8869   | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461<br>.8686<br>.8888<br>.9066  | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7967<br>.8238<br>.8485<br>.8708<br>.8907<br>.9082  | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389<br>.7704<br>.7995<br>.8264<br>.8508<br>.8729<br>.8925<br>.9099  | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023<br>.8289<br>.8531<br>.8749<br>.8944   | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8051<br>.8315<br>.8554<br>.8770<br>.8962<br>.9131   | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340<br>.8577<br>.8790<br>.8980<br>.9147   | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365<br>.8599<br>.8810<br>.8997<br>.9162   | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133<br>.8389<br>.8621<br>.8830<br>.9015   |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2<br>1.3<br>1.4  | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8159<br>.8413<br>.8643<br>.8849<br>.9032<br>.9192   | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910<br>.8186<br>.8438<br>.8665<br>.8869<br>.9049<br>.9207   | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461<br>.8686<br>.8888<br>.9066<br>.9222   | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673<br>.7967<br>.8238<br>.8485<br>.8708<br>.8907<br>.9082<br>.9236  | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389<br>.7704<br>.7995<br>.8264<br>.8508<br>.8729<br>.8925<br>.9099<br>.9251   | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023<br>.8289<br>.8531<br>.8749<br>.8944<br>.9115<br>.9265   | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8051<br>.8315<br>.8554<br>.8770<br>.8962<br>.9131<br>.9279  | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340<br>.8577<br>.8790<br>.8980<br>.9147<br>.9292  | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365<br>.8599<br>.8810<br>.8997<br>.9162<br>.9306  | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133<br>.8389<br>.8621<br>.8930<br>.9015<br>.9177<br>.9319   |
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| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2<br>1.3<br>1.4<br>1.5<br>1.6<br>1.7<br>1.8<br>1.9   | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8159<br>.8413<br>.8643<br>.8849<br>.9032<br>.9192<br>.9332<br>.9452<br>.9554  | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910<br>.8186<br>.8438<br>.8665<br>.8486<br>.9049<br>.9207<br>.9345<br>.943<br>.9564<br>.9649  | .5478<br>.5871<br>.6252<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461<br>.8686<br>.8888<br>.9066<br>.9222<br>.9357<br>.9474<br>.9573<br>.9656   | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673<br>.7967<br>.8238<br>.8485<br>.8708<br>.8907<br>.9082<br>.9236<br>.9370<br>.9484<br>.9582   | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7389<br>.7704<br>.7995<br>.8264<br>.8508<br>.8729<br>.9999<br>.9251<br>.9382<br>.9495<br>.9591<br>.9671<br>.9738   | .5596<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023<br>.8289<br>.8531<br>.8749<br>.8944<br>.9115<br>.9265<br>.9394<br>.9505<br>.9599<br>.9578   | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8051<br>.8554<br>.8770<br>.8962<br>.9131<br>.9279<br>.9406<br>.9515<br>.9608<br>.9686   | .5675<br>.6064<br>.6403<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340<br>.8577<br>.8790<br>.9147<br>.9292<br>.9418<br>.9525<br>.9619<br>.9693   | .5714<br>.6103<br>.6480<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365<br>.8599<br>.8810<br>.8997<br>.9162<br>.9306<br>.9429<br>.9535<br>.9669<br>.9699   | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133<br>.8389<br>.8621<br>.8830<br>.9015<br>.9177<br>.9319<br>.9441<br>.9545<br>.9633<br>.9706   |
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| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2<br>1.3<br>1.4<br>1.5<br>1.6<br>1.7<br>1.8<br>1.9<br>2.0<br>2.1<br>2.2<br>2.3<br>2.4<br>2.5   | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8159<br>.8413<br>.8643<br>.8849<br>.9032<br>.9192<br>.9332<br>.9452<br>.9554<br>.9641<br>.9713<br>.9772<br>.9861<br>.9861<br>.9893<br>.9938                 | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7910<br>.8186<br>.8438<br>.8665<br>.8869<br>.9049<br>.9207<br>.9345<br>.9463<br>.9564<br>.9649<br>.9719<br>.9778<br>.9864<br>.9896  | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461<br>.8686<br>.8888<br>.9066<br>.9222<br>.9357<br>.9474<br>.9573<br>.9656<br>.9726<br>.9783<br>.9888<br>.9988<br>.9988<br>.9998   | 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| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2<br>1.3<br>1.4<br>1.5<br>1.6<br>1.7<br>1.8<br>1.9<br>2.0<br>2.1<br>2.2<br>2.3<br>2.4<br>2.5   | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8643<br>.8849<br>.9032<br>.9192<br>.9332<br>.99452<br>.9554<br>.9641<br>.9713<br>.9772<br>.9861<br>.9861<br>.9883<br>.9958<br>.9938<br>.9958                | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7910<br>.8186<br>.8438<br>.8665<br>.8869<br>.9049<br>.9207<br>.9345<br>.9463<br>.9564<br>.9649<br>.9719<br>.9778<br>.9864<br>.9896  | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461<br>.8686<br>.8888<br>.9066<br>.9222<br>.9357<br>.9474<br>.9573<br>.9656<br>.9726<br>.9783<br>.9888<br>.9988<br>.9988<br>.9998   | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673<br>.7967<br>.8238<br>.8485<br>.8708<br>.9982<br>.9236<br>.9370<br>.9484<br>.9582<br>.9732<br>.9732<br>.9732<br>.9732<br>.9834<br>.9871<br>.9925<br>.9943<br>.9943   | .5557<br>.5948<br>.63311<br>.6700<br>.7054<br>.7995<br>.8264<br>.8508<br>.8729<br>.9251<br>.9382<br>.9495<br>.9591<br>.9671<br>.9738<br>.9738<br>.9738<br>.9793<br>.9838<br>.9875<br>.9904   | .5596<br>.5986<br>.6368<br>.6736<br>.7422<br>.7734<br>.8023<br>.8289<br>.8531<br>.8749<br>.9265<br>.9265<br>.9394<br>.9578<br>.9744<br>.9798<br>.9678<br>.9749<br>.9798<br>.9842<br>.9996  | .5636<br>.6026.<br>.6406<br>.6772<br>.7123<br>.7454<br>.8051<br>.8770<br>.8962<br>.9913<br>.9279<br>.9406<br>.9881<br>.9890<br>.9891<br>.9891<br>.9993<br>.9993<br>.9994<br>.9991   | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340<br>.8577<br>.8790<br>.9980<br>.9980<br>.9525<br>.9616<br>.9693<br>.9756<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9808<br>.9908<br>.9908<br>.9908<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008<br>.9008 | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365<br>.8599<br>.810<br>.9972<br>.9162<br>.9306<br>.9429<br>.9535<br>.9629<br>.9761<br>.9812<br>.9887<br>.9913<br>.9934<br>.9934<br>.9934<br>.9934  | .5753<br>.6141<br>.6517<br>.6879<br>.7224<br>.7549<br>.7852<br>.8133<br>.8389<br>.9015<br>.9177<br>.9319<br>.9744<br>.9767<br>.9857<br>.9890<br>.9916<br>.9936<br>.9936<br>.9936<br>.9936                                      |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2<br>1.3<br>1.4<br>1.5<br>1.6<br>1.7<br>1.8<br>1.9<br>2.0<br>2.1<br>2.2<br>2.3<br>2.4<br>2.5<br>2.6<br>2.7   | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7881<br>.8849<br>.9032<br>.9452<br>.9332<br>.9452<br>.9554<br>.9641<br>.9713<br>.9861<br>.99821<br>.9893<br>.9959  | .5438<br>.5832<br>.6217<br>.6551<br>.6950<br>.7291<br>.7910<br>.8438<br>.8665<br>.8869<br>.9049<br>.9207<br>.9345<br>.9564<br>.9564<br>.9564<br>.9969<br>.9990<br>.9990<br>.9990<br>.9990<br>.9995<br>.9995  | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461<br>.8686<br>.8888<br>.9066<br>.9222<br>.9357<br>.9474<br>.9573<br>.9658<br>.9726<br>.9726<br>.9783<br>.9868<br>.9898<br>.9992<br>.9941  | .5517<br>.5910<br>.6293<br>.6664<br>.7019<br>.7357<br>.7967<br>.8238<br>.8485<br>.8708<br>.8907<br>.9082<br>.9236<br>.9370<br>.9484<br>.9582<br>.9664<br>.9732<br>.9788<br>.9831<br>.9925<br>.9925<br>.9925<br>.9925<br>.9925<br>.9925<br>.9925   | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7995<br>.8264<br>.8729<br>.9251<br>.9382<br>.9495<br>.9591<br>.9671<br>.9738<br>.9838<br>.9875<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999  | .5996<br>.5996<br>.5986<br>.6736<br>.7088<br>.6736<br>.7088<br>.8023<br>.8289<br>.8531<br>.8749<br>.8944<br>.9115<br>.9265<br>.9394<br>.9505<br>.9744<br>.9798<br>.9878<br>.9984<br>.9989<br>.9996<br>.9996<br>.9990                                     | .5636<br>.6026<br>.6406<br>.6772<br>.7123<br>.7454<br>.8051<br>.8315<br>.8554<br>.8962<br>.9131<br>.9240<br>.9615<br>.9608<br>.9608<br>.9750<br>.9803<br>.9981<br>.9999<br>.9939<br>.9999                                       | .5675<br>.6064<br>.6443<br>.6808<br>.7157<br>.7486<br>.7794<br>.8078<br>.8340<br>.8980<br>.9147<br>.9292<br>.9418<br>.9525<br>.9616<br>.9693<br>.9756<br>.9808<br>.9850<br>.9884<br>.9911<br>.9932<br>.9949<br>.9949  | .5714<br>.6103<br>.6480<br>.6844<br>.7190<br>.7517<br>.7823<br>.8106<br>.8365<br>.8599<br>.8810<br>.9429<br>.9535<br>.9625<br>.9629<br>.9761<br>.9854<br>.9854<br>.9854<br>.9834  | 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| 0.1<br>0.2<br>0.3<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.1<br>1.2<br>1.3<br>1.4<br>1.5<br>1.6<br>1.7<br>1.8<br>2.0<br>2.1<br>2.2<br>2.2<br>2.3<br>2.4<br>2.5<br>2.7<br>2.8   | .5398<br>.5793<br>.6179<br>.6554<br>.6915<br>.7257<br>.7580<br>.7781<br>.8159<br>.8413<br>.8643<br>.8643<br>.9032<br>.9452<br>.9332<br>.9452<br>.9554<br>.9641<br>.9972<br>.9821<br>.9893<br>.9918<br>.993<br>.9918<br>.993<br>.9953 | .5438<br>.5832<br>.6217<br>.6591<br>.6950<br>.7291<br>.7611<br>.7910<br>.8438<br>.8665<br>.9449<br>.9049<br>.9049<br>.9049<br>.9463<br>.9564<br>.9719<br>.9788<br>.9864<br>.9996<br>.9990<br>.9990<br>.9990<br>.9990<br>.9995<br>.9995<br>.9995  | .5478<br>.5871<br>.6255<br>.6628<br>.6985<br>.7324<br>.7642<br>.7939<br>.8212<br>.8461<br>.8686<br>.9222<br>.9357<br>.9474<br>.9573<br>.9656<br>.9726<br>.9783<br>.9898<br>.9929<br>.9941<br>.9956   | 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| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2<br>1.3<br>1.4<br>1.5<br>1.6<br>1.7<br>1.8<br>1.9<br>2.0<br>2.1<br>2.2<br>2.3<br>2.4<br>2.5<br>2.9<br>2.9<br>2.9<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0        | 5.398. 5.792. 6.179. 6.554. 6.915. 7.257. 7.580. 6.915. 7.257. 7.881. 8.159. 6.413. 8.849. 9.032. 9.192. 9.9452. 9.9554. 9.9641. 9.9661. 9.9772. 9.8621. 9.9863. 9.9918. 9.9918. 9.9918. 9.9918. 9.9918.                             | .5438<br>.5832<br>.6217<br>.6591<br>.76111<br>.8186<br>.8438<br>.8665<br>.8869<br>.9049<br>.9207<br>.9345<br>.9456<br>.9464<br>.9464<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986 | 5.478   5.871   6.255   6.628   6.628   6.628   6.628   6.628   6.828   8.812   8.461   8.888   8.9066   9.222   9.947   9.957   9.947   9.957   9.949   9.982   9.992   9.991   9.992   9.998   9.992   9.998   9.992   9.998   9.999   9.998   9.999   9.998   9.998   9.998   9.998   9.998   9.998   9.998   9.998   9.999   9.998   9.998   9.998   9.998   9.998   9.998   9.999   9.998   9.999   9.998   9.999   9.998   9.999   9.998 | 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.5753<br>.6141<br>.6517<br>.6857<br>.7852<br>.8133<br>.8621<br>.9157<br>.9177<br>.9441<br>.9545<br>.937<br>.9441<br>.9441<br>.9545<br>.937<br>.9441<br>.9441<br>.9545<br>.9936<br>.9936<br>.9936<br>.9996<br>.9996             |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2<br>1.3<br>1.4<br>1.5<br>1.6<br>1.7<br>1.8<br>1.9<br>2.0<br>2.1<br>2.2<br>2.3<br>2.4<br>2.5<br>2.6<br>2.7<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                             | 5.398. 6.179 6.554 6.6179 6.554 6.6915 7.257 7.580 7.881 8.159 9.32 9.152 9.9452 9.9452 9.9452 9.9554 9.9712 9.9821 9.9938 9.9955 9.9938 9.9955 9.9938 9.9959 9.9938 9.9959 9.9938   | .5438<br>.5832<br>.5832<br>.6217<br>.6591<br>.7910<br>.7910<br>.7910<br>.8186<br>.8438<br>.8866<br>.9049<br>.90207<br>.9345<br>.9463<br>.9564<br>.9649<br>.9956<br>.9956<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950<br>.9950 | 5.478   5.871   6.255   6.628   6.628   6.628   7.324   7.642   7.842  | .5517<br>.6293<br>.6293<br>.6664<br>.7019<br>.7357<br>.7673<br>.7967<br>.8238<br>.8908<br>.9370<br>.9484<br>.9370<br>.9484<br>.9370<br>.9484<br>.9370<br>.9664<br>.9732<br>.9694<br>.9991<br>.9994<br>.9994<br>.9998<br>.9998<br>.9998  | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.77054<br>.8264<br>.8264<br>.8295<br>.9925<br>.9931<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959<br>.9959 | .5966<br>.5987<br>.6368<br>.6736<br>.7088<br>.7422<br>.7734<br>.8023<br>.8281<br>.8749<br>.8531<br>.8749<br>.8941<br>.9115<br>.9265<br>.9394<br>.9798<br>.9678<br>.9798<br>.9942<br>.9996<br>.9990<br>.9970<br>.9978<br>.9978<br>.9989<br>.9998<br>.9998 | .5636<br>.6026.<br>.6406<br>.6772<br>.7123<br>.7454<br>.7764<br>.8515<br>.8554<br>.8516<br>.8962<br>.9131<br>.9279<br>.9406<br>.9686<br>.9686<br>.9881<br>.9993<br>.9993<br>.9993<br>.9999<br>.9999<br>.9999                    | .5675<br>.6064<br>.6403<br>.6808<br>.8978<br>.8978<br>.8980<br>.9914<br>.9292<br>.9418<br>.9693<br>.9984<br>.9911<br>.9968<br>.9988<br>.9992<br>.9992<br>.99992<br>.99992   | .5714 .6103 .6480 .7517 .792 .8106 .8481 .8599 .9429 .9429 .9625 .9699 .9699 .9993 .9999 .9999 .9999 .9999  | .57531<br>.6141<br>.6517<br>.7549<br>.7549<br>.8133<br>.8389<br>.9015<br>.9177<br>.9319<br>.9441<br>.9414<br>.9545<br>.9633<br>.9706<br>.9817<br>.9917<br>.9919<br>.9919<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999<br>.9999 |
| 0.1<br>0.2<br>0.3<br>0.4<br>0.5<br>0.6<br>0.9<br>0.7<br>0.8<br>0.9<br>1.0<br>1.1<br>1.2<br>1.3<br>1.4<br>1.5<br>1.6<br>1.7<br>1.8<br>1.9<br>2.0<br>2.1<br>2.2<br>2.3<br>2.4<br>2.5<br>2.6<br>2.7<br>2.8<br>2.9<br>2.9<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0 | 5.398. 5.792. 6.179. 6.554. 6.915. 7.257. 7.580. 6.915. 7.257. 7.881. 8.159. 6.413. 8.849. 9.032. 9.192. 9.9452. 9.9554. 9.9641. 9.9661. 9.9772. 9.8621. 9.9863. 9.9918. 9.9918. 9.9918. 9.9918. 9.9918.                             | .5438<br>.5832<br>.6217<br>.6591<br>.76111<br>.8186<br>.8438<br>.8665<br>.8869<br>.9049<br>.9207<br>.9345<br>.9456<br>.9464<br>.9464<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986<br>.9986 | 5.478   5.871   6.255   6.628   6.628   6.628   6.628   6.628   6.828   8.812   8.461   8.888   8.9066   9.222   9.947   9.957   9.947   9.957   9.949   9.982   9.992   9.991   9.992   9.998   9.992   9.998   9.992   9.998   9.999   9.998   9.999   9.998   9.998   9.998   9.998   9.998   9.998   9.998   9.998   9.999   9.998   9.998   9.998   9.998   9.998   9.998   9.999   9.998   9.999   9.998   9.999   9.998   9.999   9.998 | .5517<br>.6293<br>.6664<br>.7673<br>.7673<br>.7967<br>.8238<br>.8907<br>.9082<br>.9370<br>.9484<br>.9370<br>.9484<br>.9370<br>.9484<br>.9370<br>.9484<br>.9370<br>.9484<br>.9370<br>.9389<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9390<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300<br>.9300 | .5557<br>.5948<br>.6331<br>.6700<br>.7054<br>.7054<br>.8264<br>.8508<br>.8255<br>.8925<br>.9995<br>.9951<br>.9382<br>.9495<br>.9951<br>.9973<br>.9938<br>.9939<br>.9991<br>.9994<br>.9992<br>.9995<br>.9999<br>.9999   | .5596<br>.5986<br>.5986<br>.6736<br>.7088<br>.8023<br>.8289<br>.8531<br>.8749<br>.8944<br>.9115<br>.9265<br>.9394<br>.9505<br>.9578<br>.9678<br>.9678<br>.9984<br>.9996<br>.9990<br>.9970<br>.9970   | .5636<br>.6026<br>.6026<br>.6772<br>.7123<br>.7454<br>.8051<br>.8315<br>.8554<br>.9406<br>.9608<br>.9608<br>.9608<br>.9608<br>.9803<br>.9909<br>.9931<br>.9999<br>.9991<br>.9991<br>.9999                                       | .5675<br>.6064<br>.6403<br>.7157<br>.7486<br>.7794<br>.8870<br>.8870<br>.8870<br>.8980<br>.9914<br>.9922<br>.9616<br>.9884<br>.9884<br>.9980<br>.9884<br>.9992<br>.9992<br>.9992  | .5714 .6103 .6480 .7517 .7190 .7517 .7823 .8106 .8365 .8967 .9962 .9968 .9969 .9961 .9981 .9993   | .5753<br>.6141<br>.6517<br>.6857<br>.7852<br>.8133<br>.8621<br>.9157<br>.9177<br>.9441<br>.9545<br>.937<br>.9441<br>.9441<br>.9545<br>.937<br>.9441<br>.9441<br>.9545<br>.9936<br>.9936<br>.9936<br>.9996<br>.9996             |

## 2. $P(Z \ge a) = 1 - F(a) = F(-a) = P(Z \le -a)$

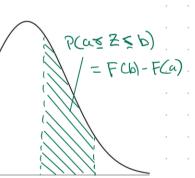


## Example:

$$P(Z = 1.5) = P(Z = -1.5) = 0.0668$$
  
 $P(Z = 2) = P(Z = -2) = 0.0228$ 

Example:

$$P(-1 \le Z \le 1.5) = F(1.5) - F(-1)$$
  
= 0.9332-0.1587  
= 0.7745



## Example:

Family income ~ N(\$25000,\$10.0002)

If zoverly level is \$10,000, What percentage of population live in Poverty:

X = Family income:

10000 - 25000

Convert to Z: 
$$Z = \frac{10,000 - 75,000}{10,000} = -1.5$$