Session2 Assignment3

Submitted By: Ashish Saxena

set.seed**(42);  
m=10; n=10;  
mymat<-**replicate**(m,** rnorm**(n)) # create matrix of normal random numbers  
mydframe=**data.frame**(mymat) # transform into data frame**for **(i** in **1**:**m) {** for **(j** in **1**:**n) {  
 mydframe[i,j]<-mydframe[i,j]** + **10**\*sin**(0.75**\***pi)** print**(mydframe)**  
 }}

## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 1.3048697 -0.3066386 0.45545012 0.2059986 0.32192527  
## 2 -0.56469817 2.2866454 -1.7813084 0.70483734 -0.3610573 -0.78383894  
## 3 0.36312841 -1.3888607 -0.1719174 1.03510352 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
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## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
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## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.02794887 8.58377482 8.46318419  
## 2 0.1852306 -0.09018639 0.25792144 -0.47617392  
## 3 0.5818237 0.62351816 0.08844023 0.65034856  
## 4 1.3997368 -0.95352336 -0.12089654 1.39111046  
## 5 -0.7272921 -0.54282881 -1.19432890 -1.11078888  
## 6 1.3025426 0.58099650 0.61199690 -0.86079259  
## 7 0.3358481 0.76817874 -0.21713985 -1.13173868  
## 8 1.0385061 0.46376759 -0.18275671 -1.45921400  
## 9 0.9207286 -0.88577630 0.93334633 0.07998255  
## 10 0.7208782 -1.09978090 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 0.70483734 -0.3610573 -0.78383894  
## 3 0.36312841 -1.3888607 -0.1719174 1.03510352 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.02794887 8.58377482 8.46318419  
## 2 0.1852306 -0.09018639 0.25792144 -0.47617392  
## 3 0.5818237 0.62351816 0.08844023 0.65034856  
## 4 1.3997368 -0.95352336 -0.12089654 1.39111046  
## 5 -0.7272921 -0.54282881 -1.19432890 -1.11078888  
## 6 1.3025426 0.58099650 0.61199690 -0.86079259  
## 7 0.3358481 0.76817874 -0.21713985 -1.13173868  
## 8 1.0385061 0.46376759 -0.18275671 -1.45921400  
## 9 0.9207286 -0.88577630 0.93334633 0.07998255  
## 10 0.7208782 -1.09978090 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 -0.3610573 -0.78383894  
## 3 0.36312841 -1.3888607 -0.1719174 1.03510352 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.02794887 8.58377482 8.46318419  
## 2 0.1852306 -0.09018639 0.25792144 -0.47617392  
## 3 0.5818237 0.62351816 0.08844023 0.65034856  
## 4 1.3997368 -0.95352336 -0.12089654 1.39111046  
## 5 -0.7272921 -0.54282881 -1.19432890 -1.11078888  
## 6 1.3025426 0.58099650 0.61199690 -0.86079259  
## 7 0.3358481 0.76817874 -0.21713985 -1.13173868  
## 8 1.0385061 0.46376759 -0.18275671 -1.45921400  
## 9 0.9207286 -0.88577630 0.93334633 0.07998255  
## 10 0.7208782 -1.09978090 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 -0.78383894  
## 3 0.36312841 -1.3888607 -0.1719174 1.03510352 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.02794887 8.58377482 8.46318419  
## 2 0.1852306 -0.09018639 0.25792144 -0.47617392  
## 3 0.5818237 0.62351816 0.08844023 0.65034856  
## 4 1.3997368 -0.95352336 -0.12089654 1.39111046  
## 5 -0.7272921 -0.54282881 -1.19432890 -1.11078888  
## 6 1.3025426 0.58099650 0.61199690 -0.86079259  
## 7 0.3358481 0.76817874 -0.21713985 -1.13173868  
## 8 1.0385061 0.46376759 -0.18275671 -1.45921400  
## 9 0.9207286 -0.88577630 0.93334633 0.07998255  
## 10 0.7208782 -1.09978090 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 0.36312841 -1.3888607 -0.1719174 1.03510352 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.02794887 8.58377482 8.46318419  
## 2 0.1852306 -0.09018639 0.25792144 -0.47617392  
## 3 0.5818237 0.62351816 0.08844023 0.65034856  
## 4 1.3997368 -0.95352336 -0.12089654 1.39111046  
## 5 -0.7272921 -0.54282881 -1.19432890 -1.11078888  
## 6 1.3025426 0.58099650 0.61199690 -0.86079259  
## 7 0.3358481 0.76817874 -0.21713985 -1.13173868  
## 8 1.0385061 0.46376759 -0.18275671 -1.45921400  
## 9 0.9207286 -0.88577630 0.93334633 0.07998255  
## 10 0.7208782 -1.09978090 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 0.36312841 -1.3888607 -0.1719174 1.03510352 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.02794887 8.58377482 8.46318419  
## 2 7.2562984 -0.09018639 0.25792144 -0.47617392  
## 3 0.5818237 0.62351816 0.08844023 0.65034856  
## 4 1.3997368 -0.95352336 -0.12089654 1.39111046  
## 5 -0.7272921 -0.54282881 -1.19432890 -1.11078888  
## 6 1.3025426 0.58099650 0.61199690 -0.86079259  
## 7 0.3358481 0.76817874 -0.21713985 -1.13173868  
## 8 1.0385061 0.46376759 -0.18275671 -1.45921400  
## 9 0.9207286 -0.88577630 0.93334633 0.07998255  
## 10 0.7208782 -1.09978090 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 0.36312841 -1.3888607 -0.1719174 1.03510352 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.58377482 8.46318419  
## 2 7.2562984 6.9808814 0.25792144 -0.47617392  
## 3 0.5818237 0.6235182 0.08844023 0.65034856  
## 4 1.3997368 -0.9535234 -0.12089654 1.39111046  
## 5 -0.7272921 -0.5428288 -1.19432890 -1.11078888  
## 6 1.3025426 0.5809965 0.61199690 -0.86079259  
## 7 0.3358481 0.7681787 -0.21713985 -1.13173868  
## 8 1.0385061 0.4637676 -0.18275671 -1.45921400  
## 9 0.9207286 -0.8857763 0.93334633 0.07998255  
## 10 0.7208782 -1.0997809 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
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## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.58377482 8.46318419  
## 2 7.2562984 6.9808814 7.32898925 -0.47617392  
## 3 0.5818237 0.6235182 0.08844023 0.65034856  
## 4 1.3997368 -0.9535234 -0.12089654 1.39111046  
## 5 -0.7272921 -0.5428288 -1.19432890 -1.11078888  
## 6 1.3025426 0.5809965 0.61199690 -0.86079259  
## 7 0.3358481 0.7681787 -0.21713985 -1.13173868  
## 8 1.0385061 0.4637676 -0.18275671 -1.45921400  
## 9 0.9207286 -0.8857763 0.93334633 0.07998255  
## 10 0.7208782 -1.0997809 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 0.36312841 -1.3888607 -0.1719174 1.03510352 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.58377482 8.46318419  
## 2 7.2562984 6.9808814 7.32898925 6.59489389  
## 3 0.5818237 0.6235182 0.08844023 0.65034856  
## 4 1.3997368 -0.9535234 -0.12089654 1.39111046  
## 5 -0.7272921 -0.5428288 -1.19432890 -1.11078888  
## 6 1.3025426 0.5809965 0.61199690 -0.86079259  
## 7 0.3358481 0.7681787 -0.21713985 -1.13173868  
## 8 1.0385061 0.4637676 -0.18275671 -1.45921400  
## 9 0.9207286 -0.8857763 0.93334633 0.07998255  
## 10 0.7208782 -1.0997809 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.43419622 -1.3888607 -0.1719174 1.03510352 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
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## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.58377482 8.46318419  
## 2 7.2562984 6.9808814 7.32898925 6.59489389  
## 3 0.5818237 0.6235182 0.08844023 0.65034856  
## 4 1.3997368 -0.9535234 -0.12089654 1.39111046  
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## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
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## 3 7.43419622 5.6822071 -0.1719174 1.03510352 0.7581632 1.57572752  
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## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
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## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
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## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
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## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.58377482 8.46318419  
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## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
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## 3 7.43419622 5.6822071 6.8991505 1.03510352 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
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## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
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## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.58377482 8.46318419  
## 2 7.2562984 6.9808814 7.32898925 6.59489389  
## 3 0.5818237 0.6235182 0.08844023 0.65034856  
## 4 1.3997368 -0.9535234 -0.12089654 1.39111046  
## 5 -0.7272921 -0.5428288 -1.19432890 -1.11078888  
## 6 1.3025426 0.5809965 0.61199690 -0.86079259  
## 7 0.3358481 0.7681787 -0.21713985 -1.13173868  
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## 9 0.9207286 -0.8857763 0.93334633 0.07998255  
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## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.43419622 5.6822071 6.8991505 8.10617133 0.7581632 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.58377482 8.46318419  
## 2 7.2562984 6.9808814 7.32898925 6.59489389  
## 3 0.5818237 0.6235182 0.08844023 0.65034856  
## 4 1.3997368 -0.9535234 -0.12089654 1.39111046  
## 5 -0.7272921 -0.5428288 -1.19432890 -1.11078888  
## 6 1.3025426 0.5809965 0.61199690 -0.86079259  
## 7 0.3358481 0.7681787 -0.21713985 -1.13173868  
## 8 1.0385061 0.4637676 -0.18275671 -1.45921400  
## 9 0.9207286 -0.8857763 0.93334633 0.07998255  
## 10 0.7208782 -1.0997809 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.43419622 5.6822071 6.8991505 8.10617133 7.8292310 1.57572752  
## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.58377482 8.46318419  
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## 3 0.5818237 0.6235182 0.08844023 0.65034856  
## 4 1.3997368 -0.9535234 -0.12089654 1.39111046  
## 5 -0.7272921 -0.5428288 -1.19432890 -1.11078888  
## 6 1.3025426 0.5809965 0.61199690 -0.86079259  
## 7 0.3358481 0.7681787 -0.21713985 -1.13173868  
## 8 1.0385061 0.4637676 -0.18275671 -1.45921400  
## 9 0.9207286 -0.8857763 0.93334633 0.07998255  
## 10 0.7208782 -1.0997809 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
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## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.58377482 8.46318419  
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## 3 0.5818237 0.6235182 0.08844023 0.65034856  
## 4 1.3997368 -0.9535234 -0.12089654 1.39111046  
## 5 -0.7272921 -0.5428288 -1.19432890 -1.11078888  
## 6 1.3025426 0.5809965 0.61199690 -0.86079259  
## 7 0.3358481 0.7681787 -0.21713985 -1.13173868  
## 8 1.0385061 0.4637676 -0.18275671 -1.45921400  
## 9 0.9207286 -0.8857763 0.93334633 0.07998255  
## 10 0.7208782 -1.0997809 0.82177311 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
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## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
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## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
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## 5 -0.7272921 -0.5428288 -1.19432890 -1.11078888  
## 6 1.3025426 0.5809965 0.61199690 -0.86079259  
## 7 0.3358481 0.7681787 -0.21713985 -1.13173868  
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## X1 X2 X3 X4 X5 X6  
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## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
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## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.58377482 8.46318419  
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## 3 7.6528915 7.6945860 0.08844023 0.65034856  
## 4 1.3997368 -0.9535234 -0.12089654 1.39111046  
## 5 -0.7272921 -0.5428288 -1.19432890 -1.11078888  
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## X1 X2 X3 X4 X5 X6  
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## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
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## X7 X8 X9 X10  
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## 2 7.2562984 6.9808814 7.3289892 6.59489389  
## 3 7.6528915 7.6945860 7.1595080 0.65034856  
## 4 1.3997368 -0.9535234 -0.1208965 1.39111046  
## 5 -0.7272921 -0.5428288 -1.1943289 -1.11078888  
## 6 1.3025426 0.5809965 0.6119969 -0.86079259  
## 7 0.3358481 0.7681787 -0.2171398 -1.13173868  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
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## 4 0.63286260 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
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## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
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## 4 1.3997368 -0.9535234 -0.1208965 1.39111046  
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## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
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## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
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## 3 7.43419622 5.6822071 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.70393042 -0.2787888 1.2146747 -0.60892638 -0.7267048 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
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## X7 X8 X9 X10  
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## 4 7.70393042 6.7922790 8.2857425 6.46214144 6.3443630 0.64289931  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
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## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
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## 3 7.43419622 5.6822071 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.70393042 6.7922790 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 0.40426832 -0.1333213 1.8951935 0.50495512 -1.3682810 0.08976065  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
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## 3 7.6528915 7.6945860 7.1595080 7.72141637  
## 4 1.3997368 -0.9535234 -0.1208965 1.39111046  
## 5 -0.7272921 -0.5428288 -1.1943289 -1.11078888  
## 6 1.3025426 0.5809965 0.6119969 -0.86079259  
## 7 0.3358481 0.7681787 -0.2171398 -1.13173868  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
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## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.43419622 5.6822071 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.70393042 6.7922790 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 7.47533614 6.9377465 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 -0.10612452 0.6359504 -0.4304691 -1.71700868 0.4328180 0.27655075  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
## 3 7.6528915 7.6945860 7.1595080 7.72141637  
## 4 8.4708046 6.1175445 6.9501713 8.46217827  
## 5 6.3437758 6.5282390 -1.1943289 -1.11078888  
## 6 1.3025426 0.5809965 0.6119969 -0.86079259  
## 7 0.3358481 0.7681787 -0.2171398 -1.13173868  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
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## 6 1.3025426 0.5809965 0.6119969 -0.86079259  
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## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
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## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.43419622 5.6822071 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.70393042 6.7922790 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 7.47533614 6.9377465 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.96494330 7.7070182 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 1.51152200 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
## 3 7.6528915 7.6945860 7.1595080 7.72141637  
## 4 8.4708046 6.1175445 6.9501713 8.46217827  
## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 0.3358481 0.7681787 -0.2171398 -1.13173868  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.3759375 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.3577132 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.43419622 5.6822071 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.70393042 6.7922790 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 7.47533614 6.9377465 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.96494330 7.7070182 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.58258981 -0.2842529 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.6564554 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.4404669 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.3201133 -0.6399949 0.03612261 0.6556479 0.28488295  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 0.3358481 0.7681787 -0.2171398 -1.13173868  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.50636964 9.357713 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.43419622 5.682207 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.70393042 6.792279 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 7.47533614 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.96494330 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.58258981 6.786815 -0.2572694 -0.78445901 -0.8113932 0.67928882  
## 8 -0.09465904 -2.656455 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.320113 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 0.3358481 0.7681787 -0.2171398 -1.13173868  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
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## 4 7.70393042 6.792279 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 7.47533614 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.96494330 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.58258981 6.786815 6.8137984 -0.78445901 -0.8113932 0.67928882  
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## 5 7.47533614 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.96494330 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.58258981 6.786815 6.8137984 6.28660880 -0.8113932 0.67928882  
## 8 -0.09465904 -2.656455 -1.7631631 -0.85090759 1.4441013 0.08983289  
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## 5 7.47533614 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.96494330 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.58258981 6.786815 6.8137984 6.28660880 6.2596746 0.67928882  
## 8 -0.09465904 -2.656455 -1.7631631 -0.85090759 1.4441013 0.08983289  
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## 10 -0.06271410 1.320113 -0.6399949 0.03612261 0.6556479 0.28488295  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
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## 7 0.3358481 0.7681787 -0.2171398 -1.13173868  
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## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
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## 1 8.44202626 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
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## 5 7.47533614 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.96494330 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.58258981 6.786815 6.8137984 6.28660880 6.2596746 7.75035663  
## 8 -0.09465904 -2.656455 -1.7631631 -0.85090759 1.4441013 0.08983289  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
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## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 0.7681787 -0.2171398 -1.13173868  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
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## 5 7.47533614 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.96494330 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.58258981 6.786815 6.8137984 6.28660880 6.2596746 7.75035663  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
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## 7 7.4069159 7.8392465 -0.2171398 -1.13173868  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
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## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
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## 6 6.96494330 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
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## 9 2.01842371 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.99309008  
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## 1 6.7038332 6.0279489 8.5837748 8.46318419  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 7.8392465 6.8539280 -1.13173868  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
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## X1 X2 X3 X4 X5 X6  
## 1 8.44202626 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
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## 4 7.70393042 6.792279 8.2857425 6.46214144 6.3443630 7.71396712  
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## 6 6.96494330 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.58258981 6.786815 6.8137984 6.28660880 6.2596746 7.75035663  
## 8 -0.09465904 -2.656455 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.01842371 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.06271410 1.320113 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
## 3 7.6528915 7.6945860 7.1595080 7.72141637  
## 4 8.4708046 6.1175445 6.9501713 8.46217827  
## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.75035663  
## 8 6.9764088 -2.656455 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.0184237 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
## 3 7.6528915 7.6945860 7.1595080 7.72141637  
## 4 8.4708046 6.1175445 6.9501713 8.46217827  
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## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.75035663  
## 8 6.9764088 4.414612 -1.7631631 -0.85090759 1.4441013 0.08983289  
## 9 2.0184237 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
## 3 7.6528915 7.6945860 7.1595080 7.72141637  
## 4 8.4708046 6.1175445 6.9501713 8.46217827  
## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.75035663  
## 8 6.9764088 4.414612 5.3079047 -0.85090759 1.4441013 0.08983289  
## 9 2.0184237 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
## 3 7.6528915 7.6945860 7.1595080 7.72141637  
## 4 8.4708046 6.1175445 6.9501713 8.46217827  
## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.75035663  
## 8 6.9764088 4.414612 5.3079047 6.22016022 1.4441013 0.08983289  
## 9 2.0184237 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
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## 3 7.6528915 7.6945860 7.1595080 7.72141637  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.39299308  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.28722887  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.64679533  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.71396712  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.16082846  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.34761856  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.75035663  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 0.08983289  
## 9 2.0184237 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.99309008  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.28488295  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
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## 4 8.4708046 6.1175445 6.9501713 8.46217827  
## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.160828  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901  
## 9 2.0184237 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.993090  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.284883  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
## 3 7.6528915 7.6945860 7.1595080 7.72141637  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
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## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 1.0385061 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.160828  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901  
## 9 2.0184237 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.993090  
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## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
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## 4 8.4708046 6.1175445 6.9501713 8.46217827  
## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 8.1095739 0.4637676 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.160828  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901  
## 9 2.0184237 -2.440467 0.4600974 -2.41420765 -0.4314462 -2.993090  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.284883  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 8.1095739 7.5348354 -0.1827567 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229  
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## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357  
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## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
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## 8 8.1095739 7.5348354 6.8883111 -1.45921400  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
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## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993  
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## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619  
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## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
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## 8 8.1095739 7.5348354 6.8883111 5.61185381  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
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## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993  
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## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901  
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## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
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## 5 6.3437758 6.5282390 5.8767389 5.96027893  
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## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993  
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## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901  
## 9 9.0894915 4.630601 0.4600974 -2.41420765 -0.4314462 -2.993090  
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## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
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## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
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## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967  
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## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357  
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## 9 9.0894915 4.630601 7.5311652 -2.41420765 -0.4314462 -2.993090  
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## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
## 3 7.6528915 7.6945860 7.1595080 7.72141637  
## 4 8.4708046 6.1175445 6.9501713 8.46217827  
## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 8.1095739 7.5348354 6.8883111 5.61185381  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.160828  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901  
## 9 9.0894915 4.630601 7.5311652 4.65686016 -0.4314462 -2.993090  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.284883  
## X7 X8 X9 X10  
## 1 6.7038332 6.0279489 8.5837748 8.46318419  
## 2 7.2562984 6.9808814 7.3289892 6.59489389  
## 3 7.6528915 7.6945860 7.1595080 7.72141637  
## 4 8.4708046 6.1175445 6.9501713 8.46217827  
## 5 6.3437758 6.5282390 5.8767389 5.96027893  
## 6 8.3736104 7.6520643 7.6830647 6.21027522  
## 7 7.4069159 7.8392465 6.8539280 5.93932913  
## 8 8.1095739 7.5348354 6.8883111 5.61185381  
## 9 0.9207286 -0.8857763 0.9333463 0.07998255  
## 10 0.7208782 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993 6.7038332  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229 7.2562984  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795 7.6528915  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967 8.4708046  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.160828 6.3437758  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619 8.3736104  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357 7.4069159  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901 8.1095739  
## 9 9.0894915 4.630601 7.5311652 4.65686016 6.6396216 -2.993090 0.9207286  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.0279489 8.5837748 8.46318419  
## 2 6.9808814 7.3289892 6.59489389  
## 3 7.6945860 7.1595080 7.72141637  
## 4 6.1175445 6.9501713 8.46217827  
## 5 6.5282390 5.8767389 5.96027893  
## 6 7.6520643 7.6830647 6.21027522  
## 7 7.8392465 6.8539280 5.93932913  
## 8 7.5348354 6.8883111 5.61185381  
## 9 -0.8857763 0.9333463 0.07998255  
## 10 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993 6.7038332  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229 7.2562984  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795 7.6528915  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967 8.4708046  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.160828 6.3437758  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619 8.3736104  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357 7.4069159  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901 8.1095739  
## 9 9.0894915 4.630601 7.5311652 4.65686016 6.6396216 4.077978 0.9207286  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.0279489 8.5837748 8.46318419  
## 2 6.9808814 7.3289892 6.59489389  
## 3 7.6945860 7.1595080 7.72141637  
## 4 6.1175445 6.9501713 8.46217827  
## 5 6.5282390 5.8767389 5.96027893  
## 6 7.6520643 7.6830647 6.21027522  
## 7 7.8392465 6.8539280 5.93932913  
## 8 7.5348354 6.8883111 5.61185381  
## 9 -0.8857763 0.9333463 0.07998255  
## 10 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993 6.7038332  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229 7.2562984  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795 7.6528915  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967 8.4708046  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.160828 6.3437758  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619 8.3736104  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357 7.4069159  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901 8.1095739  
## 9 9.0894915 4.630601 7.5311652 4.65686016 6.6396216 4.077978 7.9917964  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.0279489 8.5837748 8.46318419  
## 2 6.9808814 7.3289892 6.59489389  
## 3 7.6945860 7.1595080 7.72141637  
## 4 6.1175445 6.9501713 8.46217827  
## 5 6.5282390 5.8767389 5.96027893  
## 6 7.6520643 7.6830647 6.21027522  
## 7 7.8392465 6.8539280 5.93932913  
## 8 7.5348354 6.8883111 5.61185381  
## 9 -0.8857763 0.9333463 0.07998255  
## 10 -1.0997809 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993 6.7038332  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229 7.2562984  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795 7.6528915  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967 8.4708046  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.160828 6.3437758  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619 8.3736104  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357 7.4069159  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901 8.1095739  
## 9 9.0894915 4.630601 7.5311652 4.65686016 6.6396216 4.077978 7.9917964  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.027949 8.5837748 8.46318419  
## 2 6.980881 7.3289892 6.59489389  
## 3 7.694586 7.1595080 7.72141637  
## 4 6.117544 6.9501713 8.46217827  
## 5 6.528239 5.8767389 5.96027893  
## 6 7.652064 7.6830647 6.21027522  
## 7 7.839247 6.8539280 5.93932913  
## 8 7.534835 6.8883111 5.61185381  
## 9 6.185292 0.9333463 0.07998255  
## 10 -1.099781 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993 6.7038332  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229 7.2562984  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795 7.6528915  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967 8.4708046  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.160828 6.3437758  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619 8.3736104  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357 7.4069159  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901 8.1095739  
## 9 9.0894915 4.630601 7.5311652 4.65686016 6.6396216 4.077978 7.9917964  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.027949 8.5837748 8.46318419  
## 2 6.980881 7.3289892 6.59489389  
## 3 7.694586 7.1595080 7.72141637  
## 4 6.117544 6.9501713 8.46217827  
## 5 6.528239 5.8767389 5.96027893  
## 6 7.652064 7.6830647 6.21027522  
## 7 7.839247 6.8539280 5.93932913  
## 8 7.534835 6.8883111 5.61185381  
## 9 6.185292 8.0044141 0.07998255  
## 10 -1.099781 0.8217731 0.65320434  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.4420263 8.375937 6.7644292 7.52651794 7.2770664 7.392993 6.7038332  
## 2 6.5063696 9.357713 5.2897594 7.77590515 6.7100105 6.287229 7.2562984  
## 3 7.4341962 5.682207 6.8991505 8.10617133 7.8292310 8.646795 7.6528915  
## 4 7.7039304 6.792279 8.2857425 6.46214144 6.3443630 7.713967 8.4708046  
## 5 7.4753361 6.937746 8.9662613 7.57602294 5.7027868 7.160828 6.3437758  
## 6 6.9649433 7.707018 6.6405987 5.35405913 7.5038858 7.347619 8.3736104  
## 7 8.5825898 6.786815 6.8137984 6.28660880 6.2596746 7.750357 7.4069159  
## 8 6.9764088 4.414612 5.3079047 6.22016022 8.5151691 7.160901 8.1095739  
## 9 9.0894915 4.630601 7.5311652 4.65686016 6.6396216 4.077978 7.9917964  
## 10 -0.0627141 1.320113 -0.6399949 0.03612261 0.6556479 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.027949 8.5837748 8.4631842  
## 2 6.980881 7.3289892 6.5948939  
## 3 7.694586 7.1595080 7.7214164  
## 4 6.117544 6.9501713 8.4621783  
## 5 6.528239 5.8767389 5.9602789  
## 6 7.652064 7.6830647 6.2102752  
## 7 7.839247 6.8539280 5.9393291  
## 8 7.534835 6.8883111 5.6118538  
## 9 6.185292 8.0044141 7.1510504  
## 10 -1.099781 0.8217731 0.6532043  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.442026 8.375937 6.7644292 7.52651794 7.2770664 7.392993 6.7038332  
## 2 6.506370 9.357713 5.2897594 7.77590515 6.7100105 6.287229 7.2562984  
## 3 7.434196 5.682207 6.8991505 8.10617133 7.8292310 8.646795 7.6528915  
## 4 7.703930 6.792279 8.2857425 6.46214144 6.3443630 7.713967 8.4708046  
## 5 7.475336 6.937746 8.9662613 7.57602294 5.7027868 7.160828 6.3437758  
## 6 6.964943 7.707018 6.6405987 5.35405913 7.5038858 7.347619 8.3736104  
## 7 8.582590 6.786815 6.8137984 6.28660880 6.2596746 7.750357 7.4069159  
## 8 6.976409 4.414612 5.3079047 6.22016022 8.5151691 7.160901 8.1095739  
## 9 9.089492 4.630601 7.5311652 4.65686016 6.6396216 4.077978 7.9917964  
## 10 7.008354 1.320113 -0.6399949 0.03612261 0.6556479 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.027949 8.5837748 8.4631842  
## 2 6.980881 7.3289892 6.5948939  
## 3 7.694586 7.1595080 7.7214164  
## 4 6.117544 6.9501713 8.4621783  
## 5 6.528239 5.8767389 5.9602789  
## 6 7.652064 7.6830647 6.2102752  
## 7 7.839247 6.8539280 5.9393291  
## 8 7.534835 6.8883111 5.6118538  
## 9 6.185292 8.0044141 7.1510504  
## 10 -1.099781 0.8217731 0.6532043  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.442026 8.375937 6.7644292 7.52651794 7.2770664 7.392993 6.7038332  
## 2 6.506370 9.357713 5.2897594 7.77590515 6.7100105 6.287229 7.2562984  
## 3 7.434196 5.682207 6.8991505 8.10617133 7.8292310 8.646795 7.6528915  
## 4 7.703930 6.792279 8.2857425 6.46214144 6.3443630 7.713967 8.4708046  
## 5 7.475336 6.937746 8.9662613 7.57602294 5.7027868 7.160828 6.3437758  
## 6 6.964943 7.707018 6.6405987 5.35405913 7.5038858 7.347619 8.3736104  
## 7 8.582590 6.786815 6.8137984 6.28660880 6.2596746 7.750357 7.4069159  
## 8 6.976409 4.414612 5.3079047 6.22016022 8.5151691 7.160901 8.1095739  
## 9 9.089492 4.630601 7.5311652 4.65686016 6.6396216 4.077978 7.9917964  
## 10 7.008354 8.391181 -0.6399949 0.03612261 0.6556479 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.027949 8.5837748 8.4631842  
## 2 6.980881 7.3289892 6.5948939  
## 3 7.694586 7.1595080 7.7214164  
## 4 6.117544 6.9501713 8.4621783  
## 5 6.528239 5.8767389 5.9602789  
## 6 7.652064 7.6830647 6.2102752  
## 7 7.839247 6.8539280 5.9393291  
## 8 7.534835 6.8883111 5.6118538  
## 9 6.185292 8.0044141 7.1510504  
## 10 -1.099781 0.8217731 0.6532043  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.442026 8.375937 6.764429 7.52651794 7.2770664 7.392993 6.7038332  
## 2 6.506370 9.357713 5.289759 7.77590515 6.7100105 6.287229 7.2562984  
## 3 7.434196 5.682207 6.899150 8.10617133 7.8292310 8.646795 7.6528915  
## 4 7.703930 6.792279 8.285743 6.46214144 6.3443630 7.713967 8.4708046  
## 5 7.475336 6.937746 8.966261 7.57602294 5.7027868 7.160828 6.3437758  
## 6 6.964943 7.707018 6.640599 5.35405913 7.5038858 7.347619 8.3736104  
## 7 8.582590 6.786815 6.813798 6.28660880 6.2596746 7.750357 7.4069159  
## 8 6.976409 4.414612 5.307905 6.22016022 8.5151691 7.160901 8.1095739  
## 9 9.089492 4.630601 7.531165 4.65686016 6.6396216 4.077978 7.9917964  
## 10 7.008354 8.391181 6.431073 0.03612261 0.6556479 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.027949 8.5837748 8.4631842  
## 2 6.980881 7.3289892 6.5948939  
## 3 7.694586 7.1595080 7.7214164  
## 4 6.117544 6.9501713 8.4621783  
## 5 6.528239 5.8767389 5.9602789  
## 6 7.652064 7.6830647 6.2102752  
## 7 7.839247 6.8539280 5.9393291  
## 8 7.534835 6.8883111 5.6118538  
## 9 6.185292 8.0044141 7.1510504  
## 10 -1.099781 0.8217731 0.6532043  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.442026 8.375937 6.764429 7.526518 7.2770664 7.392993 6.7038332  
## 2 6.506370 9.357713 5.289759 7.775905 6.7100105 6.287229 7.2562984  
## 3 7.434196 5.682207 6.899150 8.106171 7.8292310 8.646795 7.6528915  
## 4 7.703930 6.792279 8.285743 6.462141 6.3443630 7.713967 8.4708046  
## 5 7.475336 6.937746 8.966261 7.576023 5.7027868 7.160828 6.3437758  
## 6 6.964943 7.707018 6.640599 5.354059 7.5038858 7.347619 8.3736104  
## 7 8.582590 6.786815 6.813798 6.286609 6.2596746 7.750357 7.4069159  
## 8 6.976409 4.414612 5.307905 6.220160 8.5151691 7.160901 8.1095739  
## 9 9.089492 4.630601 7.531165 4.656860 6.6396216 4.077978 7.9917964  
## 10 7.008354 8.391181 6.431073 7.107190 0.6556479 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.027949 8.5837748 8.4631842  
## 2 6.980881 7.3289892 6.5948939  
## 3 7.694586 7.1595080 7.7214164  
## 4 6.117544 6.9501713 8.4621783  
## 5 6.528239 5.8767389 5.9602789  
## 6 7.652064 7.6830647 6.2102752  
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## 8 7.534835 6.8883111 5.6118538  
## 9 6.185292 8.0044141 7.1510504  
## 10 -1.099781 0.8217731 0.6532043  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.442026 8.375937 6.764429 7.526518 7.277066 7.392993 6.7038332  
## 2 6.506370 9.357713 5.289759 7.775905 6.710011 6.287229 7.2562984  
## 3 7.434196 5.682207 6.899150 8.106171 7.829231 8.646795 7.6528915  
## 4 7.703930 6.792279 8.285743 6.462141 6.344363 7.713967 8.4708046  
## 5 7.475336 6.937746 8.966261 7.576023 5.702787 7.160828 6.3437758  
## 6 6.964943 7.707018 6.640599 5.354059 7.503886 7.347619 8.3736104  
## 7 8.582590 6.786815 6.813798 6.286609 6.259675 7.750357 7.4069159  
## 8 6.976409 4.414612 5.307905 6.220160 8.515169 7.160901 8.1095739  
## 9 9.089492 4.630601 7.531165 4.656860 6.639622 4.077978 7.9917964  
## 10 7.008354 8.391181 6.431073 7.107190 7.726716 0.284883 0.7208782  
## X8 X9 X10  
## 1 6.027949 8.5837748 8.4631842  
## 2 6.980881 7.3289892 6.5948939  
## 3 7.694586 7.1595080 7.7214164  
## 4 6.117544 6.9501713 8.4621783  
## 5 6.528239 5.8767389 5.9602789  
## 6 7.652064 7.6830647 6.2102752  
## 7 7.839247 6.8539280 5.9393291  
## 8 7.534835 6.8883111 5.6118538  
## 9 6.185292 8.0044141 7.1510504  
## 10 -1.099781 0.8217731 0.6532043  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.442026 8.375937 6.764429 7.526518 7.277066 7.392993 6.7038332  
## 2 6.506370 9.357713 5.289759 7.775905 6.710011 6.287229 7.2562984  
## 3 7.434196 5.682207 6.899150 8.106171 7.829231 8.646795 7.6528915  
## 4 7.703930 6.792279 8.285743 6.462141 6.344363 7.713967 8.4708046  
## 5 7.475336 6.937746 8.966261 7.576023 5.702787 7.160828 6.3437758  
## 6 6.964943 7.707018 6.640599 5.354059 7.503886 7.347619 8.3736104  
## 7 8.582590 6.786815 6.813798 6.286609 6.259675 7.750357 7.4069159  
## 8 6.976409 4.414612 5.307905 6.220160 8.515169 7.160901 8.1095739  
## 9 9.089492 4.630601 7.531165 4.656860 6.639622 4.077978 7.9917964  
## 10 7.008354 8.391181 6.431073 7.107190 7.726716 7.355951 0.7208782  
## X8 X9 X10  
## 1 6.027949 8.5837748 8.4631842  
## 2 6.980881 7.3289892 6.5948939  
## 3 7.694586 7.1595080 7.7214164  
## 4 6.117544 6.9501713 8.4621783  
## 5 6.528239 5.8767389 5.9602789  
## 6 7.652064 7.6830647 6.2102752  
## 7 7.839247 6.8539280 5.9393291  
## 8 7.534835 6.8883111 5.6118538  
## 9 6.185292 8.0044141 7.1510504  
## 10 -1.099781 0.8217731 0.6532043  
## X1 X2 X3 X4 X5 X6 X7  
## 1 8.442026 8.375937 6.764429 7.526518 7.277066 7.392993 6.703833  
## 2 6.506370 9.357713 5.289759 7.775905 6.710011 6.287229 7.256298  
## 3 7.434196 5.682207 6.899150 8.106171 7.829231 8.646795 7.652892  
## 4 7.703930 6.792279 8.285743 6.462141 6.344363 7.713967 8.470805  
## 5 7.475336 6.937746 8.966261 7.576023 5.702787 7.160828 6.343776  
## 6 6.964943 7.707018 6.640599 5.354059 7.503886 7.347619 8.373610  
## 7 8.582590 6.786815 6.813798 6.286609 6.259675 7.750357 7.406916  
## 8 6.976409 4.414612 5.307905 6.220160 8.515169 7.160901 8.109574  
## 9 9.089492 4.630601 7.531165 4.656860 6.639622 4.077978 7.991796  
## 10 7.008354 8.391181 6.431073 7.107190 7.726716 7.355951 7.791946  
## X8 X9 X10  
## 1 6.027949 8.5837748 8.4631842  
## 2 6.980881 7.3289892 6.5948939  
## 3 7.694586 7.1595080 7.7214164  
## 4 6.117544 6.9501713 8.4621783  
## 5 6.528239 5.8767389 5.9602789  
## 6 7.652064 7.6830647 6.2102752  
## 7 7.839247 6.8539280 5.9393291  
## 8 7.534835 6.8883111 5.6118538  
## 9 6.185292 8.0044141 7.1510504  
## 10 -1.099781 0.8217731 0.6532043  
## X1 X2 X3 X4 X5 X6 X7 X8  
## 1 8.442026 8.375937 6.764429 7.526518 7.277066 7.392993 6.703833 6.027949  
## 2 6.506370 9.357713 5.289759 7.775905 6.710011 6.287229 7.256298 6.980881  
## 3 7.434196 5.682207 6.899150 8.106171 7.829231 8.646795 7.652892 7.694586  
## 4 7.703930 6.792279 8.285743 6.462141 6.344363 7.713967 8.470805 6.117544  
## 5 7.475336 6.937746 8.966261 7.576023 5.702787 7.160828 6.343776 6.528239  
## 6 6.964943 7.707018 6.640599 5.354059 7.503886 7.347619 8.373610 7.652064  
## 7 8.582590 6.786815 6.813798 6.286609 6.259675 7.750357 7.406916 7.839247  
## 8 6.976409 4.414612 5.307905 6.220160 8.515169 7.160901 8.109574 7.534835  
## 9 9.089492 4.630601 7.531165 4.656860 6.639622 4.077978 7.991796 6.185292  
## 10 7.008354 8.391181 6.431073 7.107190 7.726716 7.355951 7.791946 5.971287  
## X9 X10  
## 1 8.5837748 8.4631842  
## 2 7.3289892 6.5948939  
## 3 7.1595080 7.7214164  
## 4 6.9501713 8.4621783  
## 5 5.8767389 5.9602789  
## 6 7.6830647 6.2102752  
## 7 6.8539280 5.9393291  
## 8 6.8883111 5.6118538  
## 9 8.0044141 7.1510504  
## 10 0.8217731 0.6532043  
## X1 X2 X3 X4 X5 X6 X7 X8  
## 1 8.442026 8.375937 6.764429 7.526518 7.277066 7.392993 6.703833 6.027949  
## 2 6.506370 9.357713 5.289759 7.775905 6.710011 6.287229 7.256298 6.980881  
## 3 7.434196 5.682207 6.899150 8.106171 7.829231 8.646795 7.652892 7.694586  
## 4 7.703930 6.792279 8.285743 6.462141 6.344363 7.713967 8.470805 6.117544  
## 5 7.475336 6.937746 8.966261 7.576023 5.702787 7.160828 6.343776 6.528239  
## 6 6.964943 7.707018 6.640599 5.354059 7.503886 7.347619 8.373610 7.652064  
## 7 8.582590 6.786815 6.813798 6.286609 6.259675 7.750357 7.406916 7.839247  
## 8 6.976409 4.414612 5.307905 6.220160 8.515169 7.160901 8.109574 7.534835  
## 9 9.089492 4.630601 7.531165 4.656860 6.639622 4.077978 7.991796 6.185292  
## 10 7.008354 8.391181 6.431073 7.107190 7.726716 7.355951 7.791946 5.971287  
## X9 X10  
## 1 8.583775 8.4631842  
## 2 7.328989 6.5948939  
## 3 7.159508 7.7214164  
## 4 6.950171 8.4621783  
## 5 5.876739 5.9602789  
## 6 7.683065 6.2102752  
## 7 6.853928 5.9393291  
## 8 6.888311 5.6118538  
## 9 8.004414 7.1510504  
## 10 7.892841 0.6532043  
## X1 X2 X3 X4 X5 X6 X7 X8  
## 1 8.442026 8.375937 6.764429 7.526518 7.277066 7.392993 6.703833 6.027949  
## 2 6.506370 9.357713 5.289759 7.775905 6.710011 6.287229 7.256298 6.980881  
## 3 7.434196 5.682207 6.899150 8.106171 7.829231 8.646795 7.652892 7.694586  
## 4 7.703930 6.792279 8.285743 6.462141 6.344363 7.713967 8.470805 6.117544  
## 5 7.475336 6.937746 8.966261 7.576023 5.702787 7.160828 6.343776 6.528239  
## 6 6.964943 7.707018 6.640599 5.354059 7.503886 7.347619 8.373610 7.652064  
## 7 8.582590 6.786815 6.813798 6.286609 6.259675 7.750357 7.406916 7.839247  
## 8 6.976409 4.414612 5.307905 6.220160 8.515169 7.160901 8.109574 7.534835  
## 9 9.089492 4.630601 7.531165 4.656860 6.639622 4.077978 7.991796 6.185292  
## 10 7.008354 8.391181 6.431073 7.107190 7.726716 7.355951 7.791946 5.971287  
## X9 X10  
## 1 8.583775 8.463184  
## 2 7.328989 6.594894  
## 3 7.159508 7.721416  
## 4 6.950171 8.462178  
## 5 5.876739 5.960279  
## 6 7.683065 6.210275  
## 7 6.853928 5.939329  
## 8 6.888311 5.611854  
## 9 8.004414 7.151050  
## 10 7.892841 7.724272

**#### vectorized version** set.seed**(42);  
m=10; n=10;  
mymat<-**replicate**(m,** rnorm**(n))   
mydframe=**data.frame**(mymat)  
mydframe<-mydframe** + **10**\*sin**(0.75**\***pi)**print**(mydframe)**

## X1 X2 X3 X4 X5 X6 X7 X8  
## 1 8.442026 8.375937 6.764429 7.526518 7.277066 7.392993 6.703833 6.027949  
## 2 6.506370 9.357713 5.289759 7.775905 6.710011 6.287229 7.256298 6.980881  
## 3 7.434196 5.682207 6.899150 8.106171 7.829231 8.646795 7.652892 7.694586  
## 4 7.703930 6.792279 8.285743 6.462141 6.344363 7.713967 8.470805 6.117544  
## 5 7.475336 6.937746 8.966261 7.576023 5.702787 7.160828 6.343776 6.528239  
## 6 6.964943 7.707018 6.640599 5.354059 7.503886 7.347619 8.373610 7.652064  
## 7 8.582590 6.786815 6.813798 6.286609 6.259675 7.750357 7.406916 7.839247  
## 8 6.976409 4.414612 5.307905 6.220160 8.515169 7.160901 8.109574 7.534835  
## 9 9.089492 4.630601 7.531165 4.656860 6.639622 4.077978 7.991796 6.185292  
## 10 7.008354 8.391181 6.431073 7.107190 7.726716 7.355951 7.791946 5.971287  
## X9 X10  
## 1 8.583775 8.463184  
## 2 7.328989 6.594894  
## 3 7.159508 7.721416  
## 4 6.950171 8.462178  
## 5 5.876739 5.960279  
## 6 7.683065 6.210275  
## 7 6.853928 5.939329  
## 8 6.888311 5.611854  
## 9 8.004414 7.151050  
## 10 7.892841 7.724272