**> X = runif(1000,min=5,max=10)**

**> Mean\_X = mean(X)**

**> Mean\_X**

**[1] 7.562847**

> X

[1] 9.921662 9.274987 9.422055 8.991231 9.492889 8.851489 6.956555

[8] 8.537731 6.296871 7.132900 7.661755 5.146535 8.706275 9.533108

[15] 5.379504 7.146361 8.536340 8.355416 6.680489 8.554338 9.843972

[22] 6.899873 7.598201 7.665903 6.306804 7.164993 6.905181 9.557636

[29] 6.197679 9.011702 8.564957 6.903925 8.972847 7.709363 6.161135

[36] 7.504400 9.970390 9.589222 8.274324 7.525876 8.610326 6.084900

[43] 5.071791 6.638638 7.848809 7.751523 7.148836 9.915160 5.559313

[50] 8.401145 9.884101 7.601509 9.117444 9.567705 5.440915 7.357962

[57] 7.358162 9.499034 6.815952 5.946082 6.733007 6.815213 8.272243

[64] 6.794120 9.907680 6.292019 6.880268 7.740477 5.153268 9.467275

[71] 8.095070 8.547948 6.860905 6.424169 7.681717 8.278755 7.311806

[78] 6.713872 8.181868 8.036669 7.945567 8.768347 7.119600 5.729489

[85] 7.400816 8.832027 8.957291 5.805132 8.335810 6.999670 8.132871

[92] 8.403255 9.214389 6.563702 6.070754 6.132807 8.275964 7.456724

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[106] 5.658686 7.896806 7.779960 9.947880 7.459915 9.170521 7.802358

[113] 7.906614 7.180886 9.205581 9.556416 6.392516 8.751335 7.025646

[120] 6.462308 9.937419 8.019722 9.308187 7.669577 7.405510 5.007609

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[911] 9.592824 8.657829 6.549880 9.432181 9.217269 6.547798 5.585859

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**> Y = 4\*X-6**

**> Y**

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[15] 15.51802 22.58544 28.14536 27.42166 20.72196 28.21735 33.37589

[22] 21.59949 24.39280 24.66361 19.22722 22.65997 21.62072 32.23054

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[36] 24.01760 33.88156 32.35689 27.09730 24.10350 28.44130 18.33960

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[71] 26.38028 28.19179 21.44362 19.69667 24.72687 27.11502 23.24723

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[897] 23.99050 18.85852 28.41735 17.74521 33.64483 31.01515 32.07751

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[946] 17.17801 26.89622 23.36304 16.73783 15.97886 26.19313 24.58615

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[974] 16.13657 31.31341 31.80268 20.89134 32.70494 31.74562 16.31534

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[988] 28.45320 27.30392 25.95499 29.61105 31.76357 27.48458 28.69442

[995] 20.28472 23.91191 17.92689 24.74827 26.21355 14.50495

**> Mean\_Y = mean(Y)**

**> Mean\_Y**

**[1] 24.25139**

**> Var\_X = var(X)**

**> Var\_X**

**[1] 2.06492**

**> Var\_Y = var(Y)**

**> Var\_Y**

**[1] 33.03871**

**> Cov\_X\_Y = cov(X,Y)**

**> Cov\_X\_Y**

**[1] 8.259678**

**> Cor\_X\_Y = cor(X,Y)**

**> Cor\_X\_Y**

**[1] 1**

> for(i in 1:3){

+ Y = X\*exp(2\*X^(n-1))

+ print(cor(X,Y))}

Error in n : 找不到对象'n'

**> for ( i in 1:3){**

**+ Y = X\*exp(2\*X^(i-1))**

**+ print(cor(X,Y))}**

**[1] 1**

**[1] 0.6650711**

**[1] 0.137746**

随着 I （n） 增大，线性相关程度逐渐降低，相关系数逐渐趋于零