Журнал команд

```
array1=1:5
array2=5:10:100
array3=100:1
array3=100:-10:1
M=[1,2,3]
A=[3 4 66 11;44 11 55 33; 10 15 100]
A=[3 4 66 11;44 11 55 33; 10 15 100 523]
B=[1 2; 3 4]
A(3,:)
B(:,2)
A(2,:)=[]
C=A(1:2,2:3)
a=C(:)
b=a(1:2)
a(1)=[]
A=[0 2; 4 6];
B=[8 10; 12 14];
((A/11)+3)+B^2
n=A/B
m=B/C
l=A*B
matrix(A,2,2)
matrix(A,4,1)
matrix(B,1,4)
ones(1,19)
ones(5,5)
eye(10,10)
zeros(2,2)
D=eye(ans)
rang(3,3)
rand(3,3)
rand(10,5,10)
full(D)
full(rand(10,5,10)
full(rand(10,5,10))
E=[15,30,45,60];
diag(E)
diag(E,4)
[n,m)=size(C)
max(C)
C=(1 2 3; 4 5 6;7 8 9];
C=[1 2 3; 4 5 6;7 8 9];
max(C)
min(C)
sum(c)
sum(C)
det(C)
rank(C)
qr(C)
F='aa' 'bb';'cc' 'dd']
F=['aa' 'bb';'cc' 'dd']
F=['aa' 'bb'; 'cc' 'dd']
G=['q' 'w' ; 'e' 'r']
F+G
```

```
A+F+G
G+F
F+F+F+G+F+G+G
A=[10 20 30; 40 50 60; 70 80 90];
B=[1; 2; 3]
B=[1; 2; 3];
inv(A)*B
C=rref([A B]);
[n,m]=size(C);
ovt=C(n,:)
```

```
--> array1=1:5
 array1  =

   1.   2.   3.   4.   5.


--> array2=5:10:100
 array2  =


         column 1 to 6

   5.   15.   25.   35.   45.   55.

         column 7 to 10

   65.   75.   85.   95.


--> array3=100:1
 array3  =

    []


--> array3=100:-10:1
 array3  =


         column 1 to 6

   100.   90.   80.   70.   60.   50.

         column 7 to 10

   40.   30.   20.   10.
```

```
--> M=[1,2,3]
 M  =

   1.    2.    3.


--> A=[3 4 66 11;44 11 55 33; 10 15 100]

несовпадающие размеры строки/столбца

--> A=[3 4 66 11;44 11 55 33; 10 15 100 523]
 A  =

   3.    4.    66.    11.
   44.   11.   55.    33.
   10.   15.   100.   523.


--> B=[1 2; 3 4]
 B  =

   1.    2.
   3.    4.


--> A(3,:)
 ans  =

   10.   15.   100.   523.


--> B(:,2)
 ans  =

   2.
   4.
```

```
--> A(2,:)=[]
 A  =

   3.    4.    66.    11.
   10.   15.   100.   523.


--> C=A(1:2,2:3)
 C  =

   4.    66.
   15.   100.


--> a=C(:)
 a  =

   4.
   15.
   66.
   100.


--> b=a(1:2)
 b  =

   4.
   15.


--> a(1)=[]
 a  =

   15.
   66.
   100.


--> A=[0 2; 4 6];

--> B=[8 10; 12 14];
```

```
--> ((A/11)+3)+B^2
 ans  =

   187.         223.18182
   267.36364    319.54545


--> n=A/B
 n  =

   3.   -2.
   2.   -1.


--> m=B/C
 m  =

  -1.1016949    0.8271186
  -1.6779661    1.2474576


--> l=A*B
 l  =

   24.     28.
   104.    124.


--> matrix(A,2,2)
 ans  =

   0.    2.
   4.    6.
```

```
--> matrix(A,4,1)
 ans  =

   0.
   4.
   2.
   6.


--> matrix(B,1,4)
 ans  =

   8.   12.   10.   14.


--> ones(1,19)
 ans  =


         column 1 to 7

   1.   1.   1.   1.   1.   1.   1.

         column 8 to 14

   1.   1.   1.   1.   1.   1.   1.

         column 15 to 19

   1.   1.   1.   1.   1.


--> ones(5,5)
 ans  =

   1.   1.   1.   1.   1.
   1.   1.   1.   1.   1.
   1.   1.   1.   1.   1.
   1.   1.   1.   1.   1.
   1.   1.   1.   1.   1.
```

```
--> eye(10,10)
 ans  =


         column 1 to 8

   1.    0.    0.    0.    0.    0.    0.    0.
   0.    1.    0.    0.    0.    0.    0.    0.
   0.    0.    1.    0.    0.    0.    0.    0.
   0.    0.    0.    1.    0.    0.    0.    0.
   0.    0.    0.    0.    1.    0.    0.    0.
   0.    0.    0.    0.    0.    1.    0.    0.
   0.    0.    0.    0.    0.    0.    1.    0.
   0.    0.    0.    0.    0.    0.    0.    1.
   0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.    0.

         column 9 to 10

   0.    0.
   0.    0.
   0.    0.
   0.    0.
   0.    0.
   0.    0.
   0.    0.
   0.    0.
   1.    0.
   0.    1.


--> zeros(2,2)
 ans  =

   0.    0.
   0.    0.
```

```
--> D=eye(ans)
 D  =

   1.    0.
   0.    1.


--> rang(3,3)

Неопределённая переменная: rang

--> rand(3,3)
 ans  =

   0.2113249   0.3303271   0.8497452
   0.7560439   0.6653811   0.685731
   0.0002211   0.6283918   0.8782165


--> rand(10,5,10)
 ans  =

(:,:,1)


         column 1 to 3

   0.068374    0.6525135   0.5935095
   0.5608486   0.3076091   0.5015342
   0.6623569   0.9329616   0.4368588
   0.7263507   0.2146008   0.2693125
   0.1985144   0.312642    0.6325745
   0.5442573   0.3616361   0.4051954
   0.2320748   0.2922267   0.9184708
   0.2312237   0.5664249   0.0437334
   0.2164633   0.4826472   0.4818509
   0.8833888   0.3321719   0.2639556
```

```
         column 4 to 5

   0.4148104   0.4062025
   0.2806498   0.4094825
   0.1280058   0.8784126
   0.7783129   0.113836
   0.211903    0.1998338
   0.1121355   0.5618661
   0.6856896   0.5896177
   0.1531217   0.685398
   0.6970851   0.8906225
   0.8415518   0.5042213
(:,:,2)


         column 1 to 3

   0.3493615   0.5253563   0.8300317
   0.3873779   0.537623    0.587872
   0.9222899   0.1199926   0.4829179
   0.9488184   0.2256303   0.2232865
   0.3435337   0.6274093   0.8400886
   0.3760119   0.7608433   0.1205996
   0.7340941   0.0485566   0.2855364
   0.2615761   0.672395    0.8607515
   0.4993494   0.2017173   0.8494102
   0.2638578   0.3911574   0.5257061

         column 4 to 5

   0.993121    0.9262344
   0.6488563   0.5667211
   0.9923191   0.5711639
   0.050042    0.816011
   0.7485507   0.0568928
   0.4104059   0.5595937
   0.6084526   0.124934
   0.8544211   0.7279222
   0.0642647   0.2677766
   0.8279083   0.5465335
```

```
         column 1 to 3

   0.9885408   0.3320095   0.3454984
   0.7395657   0.025871    0.7064868
   0.0037173   0.5174468   0.5211472
   0.5900573   0.3916873   0.2870401
   0.3096467   0.2413538   0.6502795
   0.2552206   0.5064435   0.0881335
   0.6251879   0.4236102   0.4498763
   0.1157417   0.2893728   0.7227253
   0.6117004   0.0887932   0.8976796
   0.6783956   0.6212882   0.2427822

         column 4 to 5

   0.4337721   0.8187066
   0.9677053   0.4256872
   0.5068534   0.2461561
   0.5232976   0.9229532
   0.5596948   0.1000746
   0.5617307   0.4678218
   0.468176    0.3950498
   0.7794547   0.0366117
   0.7901072   0.5175369
   0.9808542   0.8325452
(:,:,4)


         column 1 to 3

   0.6104832   0.9414957   0.3599928
   0.1871112   0.2124056   0.6912788
   0.0189575   0.579502    0.7656859
   0.8433565   0.2628148   0.357265
   0.0748595   0.4360987   0.76934
   0.8532815   0.9110545   0.5477634
   0.012459    0.8082667   0.0962289
   0.1867539   0.8102653   0.9561172
   0.4920584   0.2590428   0.2207409
   0.7489608   0.4139087   0.0143259
```

```
--> full(D)
 ans  =

   1.    0.
   0.    1.


--> full(rand(10,5,10)
full(rand(10,5,10)
                  ^^
Ошибка: syntax error, unexpected end of file, expecting "," or )

--> full(rand(10,5,10))
 ans  =

(:,:,1)


         column 1 to 3

   0.2042602   0.7528714   0.115221
   0.8310431   0.051723    0.4862681
   0.0122163   0.5958625   0.7671583
   0.4884462   0.3833705   0.088053
   0.9549877   0.490022    0.7008561
   0.0587431   0.5272795   0.1879139
   0.8258465   0.0688945   0.2017886
   0.2980742   0.8843078   0.4062821
   0.077576    0.7191294   0.4096657
   0.5846092   0.069426    0.1769565
```

```
         column 4 to 5

   0.3312931   0.9424792
   0.0518477   0.6817725
   0.4149242   0.2734241
   0.7221236   0.2071775
   0.0774625   0.1937939
   0.5855878   0.6797838
   0.3707945   0.5883657
   0.2116117   0.9331754
   0.1903269   0.5509123
   0.5607954   0.8040547
(:,:,2)


         column 1 to 3

   0.107449    0.7006579   0.4498859
   0.7403925   0.8870612   0.7707574
   0.5610332   0.6979769   0.2435224
   0.7661155   0.6798991   0.2126115
   0.7830659   0.361594    0.1099234
   0.1438831   0.2673998   0.6981481
   0.1647192   0.0773687   0.4150906
   0.3177414   0.14941     0.5029819
   0.5026596   0.3201839   0.7511607
   0.6920496   0.2026055   0.9940147

         column 4 to 5

   0.1828762   0.876191
   0.3021917   0.0373321
   0.3785486   0.4293466
   0.7153199   0.3157233
   0.9524154   0.3682477
   0.4703919   0.1458774
   0.1870942   0.6768379
   0.2557188   0.5261979
   0.4435066   0.4003626
   0.7234078   0.0029108
```

```
         column 1 to 3

   0.3068181   0.5738658   0.4588491
   0.7902694   0.3492018   0.4720517
   0.957795    0.7067298   0.0623731
   0.6689271   0.3599201   0.0854401
   0.2929616   0.4052311   0.0134564
   0.8223899   0.6140811   0.3543002
   0.0179846   0.6524047   0.6719395
   0.8710701   0.0295171   0.1360619
   0.3181024   0.5668896   0.2119744
   0.5724473   0.7114017   0.4015942

         column 4 to 5

   0.4036219   0.6799288
   0.5628382   0.9514125
   0.5531093   0.1206901
   0.0768984   0.731891
   0.5360758   0.0831662
   0.0900212   0.8021909
   0.6218026   0.0290492
   0.0001215   0.6502991
   0.7219727   0.7427882
   0.6661293   0.2176611
(:,:,4)


         column 1 to 3

   0.9788486   0.0370717   0.9150032
   0.8925237   0.6404148   0.617261
   0.3511275   0.4130743   0.9964195
   0.4745619   0.8396902   0.0468599
   0.7699462   0.0002195   0.9245926
   0.0734342   0.5085374   0.9689865
   0.5894619   0.4754997   0.491629
   0.2378993   0.9625065   0.2977053
   0.4076361   0.9798011   0.0603055
   0.4304818   0.0785698   0.6313472
```

```
         column 4 to 5

   0.024103    0.8426717
   0.1527438   0.9029165
   0.9481178   0.4409482
   0.2744266   0.8332359
   0.4794727   0.7233976
   0.4855768   0.437715
   0.6764004   0.3080607
   0.832125    0.8749813
   0.0125876   0.5355882
   0.545378    0.3085999
(:,:,5)


         column 1 to 3

   0.3354632   0.2780528   0.8568082
   0.2342486   0.9583482   0.1993437
   0.2589412   0.0156363   0.7131302
   0.8521509   0.2964352   0.5208952
   0.4821739   0.4685935   0.9311723
   0.6095218   0.4262021   0.4143836
   0.9872823   0.4217656   0.5980196
   0.9811427   0.1034854   0.5549106
   0.3303114   0.4279759   0.8552953
   0.3589146   0.7860729   0.3097751

         column 4 to 5

   0.9446128   0.2161568
   0.244268    0.3420198
   0.8760447   0.4300938
   0.4874215   0.6261753
   0.3844019   0.9554251
   0.0922345   0.4541551
   0.0705419   0.0029223
   0.7338807   0.0106921
   0.7792181   0.9746371
```

```
--> E=[15,30,45,60];

--> diag(E)
 ans  =

   15.    0.    0.    0.
   0.    30.    0.    0.
   0.    0.    45.    0.
   0.    0.    0.    60.


--> diag(E,4)
 ans  =


         column 1 to 7

   0.    0.    0.    0.    15.    0.    0.
   0.    0.    0.    0.    0.    30.    0.
   0.    0.    0.    0.    0.    0.    45.
   0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.

         column 8

   0.
   0.
   0.
   60.
   0.
   0.
   0.
   0.
```

```
--> [n,m)=size(C)
  > max(C)
  > C=(1 2 3; 4 5 6;7 8 9];
[n,m)=size(C)
    ^^
Ошибка: syntax error, unexpected )

--> C=(1 2 3; 4 5 6;7 8 9];
C=(1 2 3; 4 5 6;7 8 9];
     ^^
Ошибка: syntax error, unexpected integer

--> C=[1 2 3; 4 5 6;7 8 9];

--> max(C)
 ans  =

   9.


--> min(C)
 ans  =

   1.


--> sum(c)

Неопределённая переменная: c

--> sum(C)
 ans  =

   45.
```

```
--> det(C)
 ans  =

   6.661D-16


--> rank(C)
 ans  =

   2.


--> qr(C)
 ans  =

  -0.1230915   0.904534    0.4082483
  -0.492366    0.3015113  -0.8164966
  -0.8616404  -0.3015113   0.4082483


--> F='aa' 'bb';'cc' 'dd']
F='aa' 'bb';'cc' 'dd']
       ^~~~^
Ошибка: syntax error, unexpected string, expecting end of file

--> F=['aa' 'bb';'cc' 'dd']
 F  =

!aa  bb  !
!        !
!cc  dd  !


--> F=['aa' 'bb'; 'cc' 'dd']
 F  =

!aa  bb  !
!        !
!cc  dd  !
```

```
--> G=['q' 'w' ; 'e' 'r']
 G  =

!q  w  !
!      !
!e  r  !


--> F+G
 ans  =

!aaq  bbw  !
!          !
!cce  ddr  !


--> A+F+G

Неопределённая операция для указанных операндов.
проверьте или определите функцию %s_a_c для перегрузки.

--> G+F
 ans  =

!qaa  wbb  !
!          !
!ecc  rdd  !


--> F+F+F+G+F+G+G
 ans  =

!aaaaaaqaaqq  bbbbbbwbbww  !
!                          !
!ccccceccee  ddddddrddrr  !
```

```
--> A=[10 20 30; 40 50 60; 70 80 90];

--> B=[1; 2; 3]
 B  =

   1.
   2.
   3.


--> B=[1; 2; 3];

--> inv(A)*B
Предупреждение:
матрица близка к сингулярной или плохо масштабирована. rcond = 7.4015E-18
 ans  =

   0.
  -0.125
   0.0625


--> C=rref([A B]);

--> [n,m]=size(C);

--> ovt=C(n,:)
 ovt  =

   0.   0.   0.   0.
```