

3-DEDLINE TOPSHIRQ

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1-TOPSHIRQ

5. Berilgan $\{x\}$: $-3,5; 7,4; 1,56; 81; 40; -0,15; 20; -4,75; 60; 37,5$. massivdan quyidagi formula asosida $y_i = \sqrt{|x_i|}$ ($i = 1, 2, \dots, 10$) massiv hosil qiling va ustun ko'rinishda chop eting.

DASTUR KODI:

```
#include <iostream>
#include <iomanip>
#include <math.h>
using namespace std;
int main()
{
    float arr[10]={-3.5,7.4,1.56,81,40,-0.15,20,-4.75,60,37.5};
    float ar[10];
    for(int i=0;i<10;i++)
    {
        ar[i]=sqrt(fabs(arr[i]));
        cout<<"y["<<i<<"] = "<<ar[i]<<endl;
    }
    return 0;
}
```

DASTUR NATIJASI:

```
D:\giyosddinov\programing\projekt\c++\dasturlash dedline.exe
y[0] = 1.87083
y[1] = 2.72029
y[2] = 1.249
y[3] = 9
y[4] = 6.32456
y[5] = 0.387298
y[6] = 4.47214
y[7] = 2.17945
y[8] = 7.74597
y[9] = 6.12372

-----
Process exited after 0.06447 seconds with return value 0
Для продолжения нажмите любую клавишу . . .
```

2-TOPSHIRQ

5	$Z(K)$ massivining manfiy, juft indeksli elementlarining ko'paytmasini toping.
---	--

DASTUR KODI:

```
#include <iostream>
#include <iomanip>
#include <time.h>
#include <stdlib.h>
using namespace std;
int main()
{
    int umum=1;
    srand(time(0));
    int n;
```

```

cout<<"n ni kiting\n";
cin>>n;
int arr[n];
for(int i=0;i<n;i++)
{
    arr[i]=rand()%100-50;
    cout<<"arr["<<i<<"] = "<<arr[i]<<endl;
}
for(int i=0;i<n;i++)
{
    if(i%2==0 && arr[i]<0)
    {
        umum=umum*arr[i];
    }
}
if(umum==1){
    cout<<"masivda juft indexli mafiy son topilmadi"<<endl;
}
else{
    cout<<"msivdagi juft indexli manfiy sonlar
kopaytmasi>>>"<<umum<<endl;
}
return 0;
}

```

DASTUR NATIJASI:

```
D:\giyosddinov\programing\projekt\c++\dasturlash dedline.exe
n ni kiting
8
arr[0] = -47
arr[1] = 24
arr[2] = 24
arr[3] = -50
arr[4] = -12
arr[5] = -49
arr[6] = -28
arr[7] = 35
msivdagi juft indexli manfiy sonlar kopaytmasi>>>-15792

-----
Process exited after 0.8743 seconds with return value 0
Для продолжения нажмите любую клавишу . . .
```

3-TOPSHIRQ

5. $a[n][m]$ massiv elementlarini $[-500; 500]$ oraliqdagi tasodifiy sonlar bilan to'ldiring. massivni ustun elementlarini o'sish tartibida chiqaring.

DASTUR KODI:

```
#include <iostream>

#include <stdlib.h>

#include <time.h>

using namespace std;

int main() {

    srand(time(0));

    int n, m;

    cout <<"n= ";

    cin >> n;
```

```

cout << "m= ";
cin >> m;
int arr[n][m];
for (int i = 0; i < n; i++) {
    for (int j = 0; j < m; j++) {
        arr[i][j] = rand() % 1001 - 500;
    }
}
for (int j = 0; j < m; j++) {
    for (int i = 0; i < n - 1; i++) {
        for (int k = 0; k < n - i - 1; k++) {
            if (arr[k][j] > arr[k + 1][j]) {
                int temp = arr[k][j];
                arr[k][j] = arr[k + 1][j];
                arr[k + 1][j] = temp;
            }
        }
    }
    cout << "ustn" << j + 1 << ": ";
    for (int i = 0; i < n; i++) {
        cout << arr[i][j] << " ";
    }
    cout << endl;
}

return 0;

```

}

DASTUR NATIJASI:

 D:\giyosddinovv\programing\projekt\c++\kozim.exe

```
n= 3
m= 3
ustn1: -480 162 379
ustn2: -193 -55 221
ustn3: 214 238 371
n= 4
m= 4
ustn1: -375 99 168 416
ustn2: -39 84 156 398
ustn3: 4 112 172 333
ustn4: -169 -13 329 490
n=
```