

Mustaqil ishlash uchun masalalar:

1. Massivdagi elementlarni saqlash va ularni chop etish uchun dastur yozing.

Dastur natijasi :

```
Massiv elementlarni kiritish va o'qish:
-----
Massivning 10 ta elementini kiriting:
0- element: 2
1- element: 35
2- element: 3
3- element: 14
4- element: 56
5- element: 22
6- element: 4
7- element: 6
8- element: 8
9- element: 2

Kiritilgan elementlar: 2 35 3 14 56 22 4 6 8 2

Process returned 0 (0x0)   execution time : 12.493 s
Press any key to continue.
```

2. Massivdagi n ta qiymatni o'qish va ularni teskari tartibda chiqarish uchun dastur yozing.

Dastur natijasi :

```
Massiv elementlar sonini kiriting :5
Massivning 5 ta elementini kiriting :
0-element: 2
1-element: 3
2-element: 5
3-element: 1
4-element: 6

Berilgan massiv :
2 3 5 1 6

Berilgan massivning teskari ko'rinishi :
6 1 5 3 2

Process returned 0 (0x0)   execution time : 9.375 s
Press any key to continue.
```

3. Massivning barcha elementlari yig'indisini topish uchun dastur yozing.

Dastur natijasi :

```
Massivning elementlari sonini kiriting :5
Massivning 5 ta elementini kiriting:
element - 0 : 5
element - 1 : 3
element - 2 : 2
element - 3 : 6
element - 4 : 8
Massiv elementlarining yig'indisini toping : 24

Process returned 0 (0x0)   execution time : 6.775 s
Press any key to continue.
```

4. Massivdagi takroriy elementlarning umumiy sonini hisoblash uchun dastur yozing.

Dastur natijasi :

```

Massiv elementlari sonini kiriting :10
Massiv 10 ta elementini kiriting :
element - 0 : 5
element - 1 : 2
element - 2 : 5
element - 3 : 3
element - 4 : 2
element - 5 : 6
element - 6 : 6
element - 7 : 5
element - 8 : 1
element - 9 : 9
takrorlangan elementlar soni: 4

Process returned 0 (0x0)   execution time : 13.830 s
Press any key to continue.

```

5. Bir xil o'lchamdagi ikkita massivni kamayish tartibida birlashtirish uchun dastur yozing.

Dastur natijasi :

```

Birinchi massivning elementlari sonini kiriting :4
Massivning 4 ta elementini kiriting :
element - 0 : 5
element - 1 : 6
element - 2 : 9
element - 3 : 3
Ikkinchi massivning elementlari sonini kiriting :4
Massivning 4 ta elementini kiriting :
element - 0 : 2
element - 1 : 5
element - 2 : 9
element - 3 : 6
9 9 6 6 5 5 3 2

Process returned 0 (0x0)   execution time : 13.189 s
Press any key to continue.

```

6. Massivning har bir elementining takrorlanish sonini hisoblash dasturini yozing.

Dastur natijasi :

```

Massiv elementlari sonini kiriting :8
Massivning 8 ta elementlari :
element - 0 : 5
element - 1 : 2
element - 2 : 6
element - 3 : 5
element - 4 : 6
element - 5 : 7
element - 6 : 9
element - 7 : 6

Massiv elementlari takrorlanishi :
5 elementi 2 marta
2 elementi 1 marta
6 elementi 3 marta
7 elementi 1 marta
9 elementi 1 marta

Process returned 0 (0x0)   execution time : 14.072 s
Press any key to continue.

```

7. Massivdagi maksimal va minimal elementlarni topish uchun dastur yozing.

Dastur natijasi :

```

Massiv elementlari sonini kiriting :10
Massivning 10 ta elementi :
element - 0 : 5
element - 1 : 6
element - 2 : 3
element - 3 : 2
element - 4 : 9
element - 5 : 10
element - 6 : 78
element - 7 : 55
element - 8 : 2
element - 9 : 63
Maximum element : 78
Minimum element : 2

Process returned 0 (0x0)   execution time : 11.986 s
Press any key to continue.

```

8. Toq va juft sonlarni alohida massivlarga ajratish dasturini yozing.

Dastur natijasi :

```

Massiv elementlari sonini kiriting :10
Massivning 10 ta elementlari :
element - 0 : 5
element - 1 : 6
element - 2 : 9
element - 3 : 2
element - 4 : 1
element - 5 : 4
element - 6 : 6
element - 7 : 7
element - 8 : 5
element - 9 : 9

massivning juft elementlari :
6 2 4 6
massivning toq elementlari:
5 9 1 7 5 9

Process returned 0 (0x0)   execution time : 11.090 s
Press any key to continue.

```

9. Massiv elementlarini kamayish tartibida tartiblash dasturini yozing.

Dastur natijasi :

```

massiv o'lchamini kiriting : 5
Massivning 5 ta elementlari :
element - 0 : 6
element - 1 : 3
element - 2 : 2
element - 3 : 9
element - 4 : 5

Massivning elementlarining kamayish tartibida joylashishi:
9 6 5 3 2

Process returned 0 (0x0)   execution time : 8.033 s
Press any key to continue.

```

10. Massiv elementlarini o'sish tartibida tartiblash dasturini yozing.

Dastur natijasi :

```

massiv o'lchamini kiriting : 5
Massivning 5 ta elementlari :
element - 0 : 3
element - 1 : 2
element - 2 : 9
element - 3 : 1
element - 4 : 6

Massivning elementlarining o'sish tartibida joylashishi:
1 2 3 6 9

Process returned 0 (0x0)   execution time : 5.659 s
Press any key to continue.

```

Mavzu yuzasidan testlar

1. Massivning o'lchami har doim bo'lishi kerak _____
 - a) Musbat*
 - b) Manfiy
 - c) butun son
 - d) Haqiqiy son
2. Quyidagi berilganlarning qaysi biri massiv haqida to'g'ri?
 - a) Massiv hajmi oldinnan belgilanadi.*
 - b) Massivning o'lchami dinamik.
 - c) Massivda tasodifiy kirish mumkin emas.
 - d) Bularning hech biri
3. Quyidagi sintaksisdan qaysi biri C/C++da massivni to'g'ri e'lon qiladi?
 - a) `int geeks;`
 - b) `array geeks[20];`
 - c) `geeks{20};`
 - d) `int geeks[20];*`
4. Quyidagi berilganlardan qaysi biri C/C++ da ikki o'lchovli massivni to'g'ri e'lon qiladi?
 - a) `arr[5*4]`
 - b) `int arr[5][4]*`
 - c) `arr[2][2]`
 - d) to'g'ri javob berilmagan
5. Massivda bir elementi kiritish uchun vaqt murakkabligi nima?
 - a) $O(1)$
 - b) $O(n)$
 - c) $O(\log n)^*$
 - d) $O(n \log n)$
6. 2 o'lchovli massivni bosib o'tish uchun vaqt murakkabligi qanday?

- a) $O(n)$
- b) $O(n \log n)$
- c) $O(n^2)^*$
- d) None

7. Berilgan kodta xatolikni toping

```
#include <iostream>

using namespace std;

int main()

{

    string arr[5] = { "Hello", "Geeks", "GFG", "World" };

    for (i = 0; i < 5; i++)

        cout << arr[i] << endl;

    return 0;

}
```

- a) biz beshinchi qiymatni kiritmadik
- b) biz string.h sarlavhasini kiritmadik
- c) i-o'zgaruvchisiga ma'lumot turi berilmagan*
- d) Bularning hech biri

8. Quyidagi massiv xotirani qancha butun songa ajratadi? `int [] qiymati = new int[12];`

- a) 12^*
- b) 33

c) 11

d) 13

9.

| | | | | | | |
|---|---|----|---|---|---|----|
| 9 | 4 | 12 | 2 | 6 | 8 | 18 |
|---|---|----|---|---|---|----|

Berilgan massivda qiymat[5] nimani qaytaradi.

a) 4

b) 8*

c) 6

d) 18

10.

| | | | | | | |
|---|---|----|---|---|---|----|
| 9 | 4 | 12 | 2 | 6 | 8 | 18 |
|---|---|----|---|---|---|----|

Berilgan massivda qiymat[1] nimani qaytaradi.

a) 4*

b) 8

c) 6

d) 18