



PROGRAMI I ORIENTUAR NE OBJEKTE

Vargjet dhe vektorët

DECLARING AN ARRAY AND USING A LOOP FOR INITIALIZATION



```
1 #include <iostream>
2 #include<iomanip>
3 using namespace std;
4 int main ()
5 {
6     int n[10];
7
8     for(int i=0;i<10;++i)
9         n[i]=0;
10
11     cout<<"Element"<<setw(13)<<"Value"<<endl;
12
13     for(int j=0;j<10;++j)
14
15         cout<<setw(7)<<j<<setw(13)<<n[j]<<endl;
16
17     cin.get();cin.get();
18     return 0;
19 }
```

INITIALIZING AN ARRAY IN A DECLARATION



```
1 #include <iostream>
2 #include<iomanip>
3 using namespace std;
4 int main ()
5 {
6     int n[10]={23,43,54,50,59,44,56,98,75,98};
7
8
9     cout<<"Element"<<setw(13)<<"Value"<<endl;
10
11     for(int i=0;i<10;++i)
12
13         cout<<setw(7)<<i<<setw(13)<<n[i]<<endl;
14
15         cin.get();cin.get();
16         return 0;
17 }
```

SPECIFYING AN ARRAY'S SIZE WITH A CONSTANT VARIABLE



```
1 #include <iostream>
2 #include<iomanip>
3 using namespace std;
4 int main ()
5 {
6     const int MadhesiaVargut=10;
7
8     int s[MadhesiaVargut]; //vargu s ka 10 elemente
9
10    for(int i=0;i<MadhesiaVargut;++i)
11        s[i]=3+2*i;
12
13    cout<<"Element"<<setw(13)<<"Value"<<endl;
14
15    //shtypim vargun s ne forme tabelare
16    for(int j=0;j<10;++j)
17
18        cout<<setw(7)<<j<<setw(13)<<s[j]<<endl;
19
20    cin.get();cin.get();
21    return 0;
22 }
```

ELEMENTET E VARGUT NË KALKULIM



```
1 #include <iostream>
2 #include<iomanip>
3 using namespace std;
4 int main ()
5 {
6     const int MadhesiaVargut=10;
7
8     int a[MadhesiaVargut]={23,43,54,50,59,44,56,98,75,98};
9
10    int shuma=0;
11    for(int i=0;i<MadhesiaVargut;++i)
12        shuma+=a[i];
13
14    cout<<"Shuma e elementeve te vargut: "<<shuma<<endl;
15
16
17    cin.get();cin.get();
18    return 0;
19 }
```

PER VARGUN A[10], TE SHYTPET INDEX, VLERA, HISTOGRAM!



```
1 #include <iostream>
2 #include<iomanip>
3 using namespace std;
4 int main ()
5 {
6     int a[10],j,n,i;
7     cout<<"Jepe numrin e elementeve te vargut";
8     for(i=0;i<=9;i++)
9     {
10         cout<<"\n a["<<i<<"]="";
11         cin>>a[i];
12     }
13     cout<<"\n      index      vlera      histogram";
14     cout<<"\n";
15     for(i=0;i<=9;i++)
16     {
17         cout<<"\n"<<setw(8)<<i<<setw(11)<<a[i]<<setw(13);
18         for(j=1;j<=a[i];j++)
19             cout<<'*';
20     }
21     cin.get();cin.get();
22     return 0;
23 }
```

SA ELEMENTE KA VARGU?

```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int a[20],i,n;
6      cout<<"\nSa elemente ka vargu\t";
7      cin>>n;
8      for(i=0;i<=n-1;i++)
9      {
10         cout<<"\na["<<i<<"]="";
11         cin>>a[i];
12     }
13     for (i=0;i<=n-1;i++)
14         cout<<"\na["<<i<<"]="<<a[i];;
15     cin.get();cin.get();
16     return 0;
17 }
```

ELEMENTI MAKSIMAL I VARGUT

```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int a[10],i,n,max;
6      cout<<"\nSa elemente ka vargu\t";
7      cin>>n;
8      for(i=0;i<=n-1;i++)
9      {
10         cout<<"\na["<<i<<"]="";
11         cin>>a[i];
12     }
13     max=a[0];
14     for (i=1;i<=n-1;i++)
15     {
16         if (a[i]>=max)
17             max=a[i];
18     }
19     cout<<"Elementi maksimal i vargut eshte\t"<<max;
20     cin.get();cin.get();
21     return 0;
22 }
```


LEXIMI DHE SHYTPJA E MATRICËS KATRORE



```
1  #include <iostream>
2  using namespace std;
3  int main ()
4  {
5      int a[10][10],i,j,n;
6      //leximi i matrices
7      cout<<"\n Jepe numrin e rreshtave dhe kolonave te matrices katrore/t";
8      cin>>n;
9      for(i=0;i<=n-1;i++)
10         for(j=0;j<=n-1;j++)
11         {
12             cout<<"a["<<i<<"]["<<j<<"]="";
13             cin>>a[i][j];
14         }
15     //shtypja e matrices
16     for(i=0;i<=n-1;i++)
17     {
18         cout<<"\n";
19         for(j=0;j<=n-1;j++)
20             cout<<a[i][j]<<" ";
21     }
22     cin.get();cin.get();
23     return 0;
24 }
```

C++ STANDARD LIBRARY CLASS TEMPLATE VECTOR



```
1 #include <iostream>
2 #include <vector>
3 using namespace std;
4 int main()
5 {
6     vector <int> myVector;
7     myVector.push_back(3);
8     myVector.push_back(13);
9     myVector.push_back(33);
10
11     for (int x=0; x<myVector.size();x++)
12     {
13         cout << myVector[x] << " ";
14     }
15     cin.get(); cin.get();
16     return 0;
17 }
```

