## Temă pentru acasă. Tipuri fundamentale

A) Fiecare dintre programele următoare intră la rulare în buclă infinită. De ce?

```
Programul A1.
                                        Programul A4.
#include<iostream>
                                        #include<iostream>
using namespace std;
                                        using namespace std;
int main(void){
                                        int main(void){
    char i=100, max=10;
                                            unsigned int i;
                                            for(i=100;i>=0;i--)
    int imax=i*max;
    for(i=0;i<imax;i++)</pre>
                                                cout<<'*';
        cout<<'*';
                                            return 0;
                                        }
    return 0;
}
                                        Programul A5.
Programul A2.
                                        #include<iostream>
#include<iostream>
                                        using namespace std;
                                        int main(void){
using namespace std;
int main(void){
                                            int i;
    int i;
                                            unsigned short j;
    double imax=1000;
                                            for(i=10; i>=-10; i--){
    double di, dimax;
                                                cout<<'*';
    di=0;
                                                j=i;
    dimax=3*imax*imax;
                                                i=j;
    for(i=0; di<dimax;i++){</pre>
        cout<<'*';
                                            return 0;
                                        }
        di=3*i*i*i;
    }
                                        Programul A6.
    return 0;
}
                                        #include<iostream>
                                        using namespace std;
Programul A3.
                                        int main(void){
#include<iostream>
                                            short i;
                                            unsigned short j;
using namespace std;
                                            for(i=10; i>=-10; i--){
int main(void){
                                                cout<<'*';
    int i;
                                                j=i;
    for(i=0;i<1000;i++)
                                                if(j!=i) i++;
        if(i=3) cout<<'*';
    return 0;
                                            return 0;
                                        }
}
```

B) In toate exemplele de mai jos pe monitor apare afișat mesajul "NU". De ce?

```
Programul B1.
                                         Programul B3.
#include<iostream>
                                         #include<iostream>
using namespace std;
                                         using namespace std;
int main(void){
                                         int main(void){
    double x;
                                              short i=-1;
    x=123456789.0123456789;
                                             unsigned short j=i;
    if(x==x*x/x) cout << "DA";
                                              if(j==i) cout<<"DA";</pre>
    else cout<<"NU"<<endl;</pre>
                                              else cout<<"NU"<<endl;</pre>
    return 0;
                                              return 0;
}
                                         }
Programul B2.
                                         Programul B4.
#include<iostream>
                                         #include<iostream>
using namespace std;
                                         using namespace std;
int main(void){
    int n=1000;
                                         int main(void){
    if(1.0*n*n*n*n==n*n*n*n)
                                              short int i=1000;
       cout<<"DA";
                                              short int j=i*i;
                                              if(j==i*i) cout<<"DA";</pre>
       cout<<"NU"<<endl;</pre>
                                              else cout<<"NU"<<endl;</pre>
                                              return 0;
    return 0;
}
                                         }
```