

SOLUȚII POSIBILE

II.1 c

```
#include <iostream>
#include <fstream>
using namespace std;
int main()
{
    int n,i,k;
    cin>>n ;
    i=2;k=0;
    while (n>=i)
    {
        while (n%i==0)
        {
            k=k+1;
            n=n/i;
        }
        if (i==2) i=i+1;
        else i=i+2;
    }
    cout<<k;
}
```

II.1 d

```
citește n
(număr natural)
i ← 2; k ← 0
cât timp n ≥ i execută
| dacă (n%i=0) atunci
| | repeta
| | k ← k+1
| | n ← n/i
| până când n%i ≠ 0
|
| dacă i=2 atunci i ← i+1
| altfel i ← i+2
|
|
scrie k
```

II.3

SOLUTIA 1

```
char *p;
p=strtok(s," "); p=strtok(NULL," ");
strcpy(id,p);
strcat(id,"2022");
```



SOLUTIA 2

```
int i;  
i=0;  
while (s[i]!=' '){i++;  
strcpy(id, s+i+1);  
strcat(id,"2022");
```

SOLUTII POSIBILE

III.1

```
void secventa (long & n)  
{  
    long nou=0,p=1,c;  
    while (n!=0)  
    {  
        c=n%10;  
        if (n%100==22) c=0;  
        nou=c*p+nou;  
        p=p*10;  
        n=n/10;  
    }  
    n=nou;  
}
```

III. 2

```
#include <iostream>  
using namespace std;  
int i,j,mini,s,n,m,a[101][101];  
int main()  
{  
    cin>>m>>n;  
    for(i=1;i<=m;i++)  
        for(j=1;j<=n;j++)  
            cin>>a[i][j];  
  
    for(i=1;i<=m;i++)  
        for(j=1;j<=n;j++)  
        {  
            mini = 10;  
            if(i>1 && a[i-1][j]<mini) mini = a[i-1][j];  
            if(j>1 && a[i][j-1]<mini) mini = a[i][j-1];  
            if(i<m && a[i+1][j]<mini) mini = a[i+1][j];  
            if(j<n && a[i][j+1]<mini) mini = a[i][j+1];  
            if(a[i][j] < mini) s = s + mini - a[i][j];  
        }  
    cout<<s;  return 0;}
```

III.3

```
#include <iostream>
#include <fstream>
using namespace std;

int main()
{
    long x,y,z,maxi,nr=0;
    ifstream f("bac.txt");
    f>>x>>y;
    maxi=0;
    while (f>>z)
        if (z>maxi)
        {
            maxi=z;
            if (z>=x&& z<=y) nr++;
        }
    cout<<nr;
}
```