Tema 8

numere.out

```
42 531
```

numar.in

```
12345
```

main.cpp

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

int main()
{
    ifstream n1 ("numar.in");
    long x,n,a;
    n1>>n;
    n1.close();
    ofstream n2 ("numere.out");
    a=0;x=n;
    while (x!=0)
    {
        if (x%2==0) a=a*10+x%10;
        x=x/10;
    }
    n2<<a<<' ';
    a=0;x=n;
    while (x!=0)
    {
        if (x%2==1) a=a*10+x%10;
        x=x/10;
    }
    n2<<a<<endl;
    n2.close();
    return 0;
}
```

Tema 9

numere.out

```
1 500078
```

numar.in

```
1 78 5 6
2
```

main.cpp

```
#include <iostream>
#include <fstream>

using namespace std;

int main()
{
    long nr,cif,poz,nr2;
    int p,cif2,m;
    ifstream n1 ("numar.in");
    n1>>nr>>cif>>poz;
    n1.close();
    ofstream n2 ("numere.out");
    p=1;cif2=0;nr2=nr;m=0;
    while (nr2!=0 || cif2<poz)
    {
        cif2++;
        if(cif2!=poz)
            m=(nr2%10)*p+m;
        else
            m=cif*p+m;
        p=p*10;
        nr2=nr2/10;
    }
    n2<<m;
    n2.close();
    return 0;
}
```

Tema 10

numar.out

```
1    192345
```

numere.in

```
1    12345 9 2
2
```

main.cpp

```
1   #include <iostream>
2   #include <fstream>
3   using namespace std;
4   int main()
5   {
6       long n,c,m,p;
7       int r,cif,nr,poz;
8       ifstream f("numere.in");
9       f>>n>>cif>>poz;
10      f.close();
11      c=n;nr=0;
12      while (c>0)
13      {  nr++; c/=10;  }
14      ofstream g("numar.out");
15      m=0;p=1;r=0;c=n;
16      while (c>0 || r<poz)
17      {
18          r++;
19          if (r==nr-poz+2)
20              {m=m+cif*p;p*=10;r++;}
21          m=m+c%10*p;
22          p*=10;
23          c/=10;
24      }
25      g<<m;
26      g.close();
27      return 0;
28  }
```

Tema 11

numar.out

```
1 211
```

numere.in

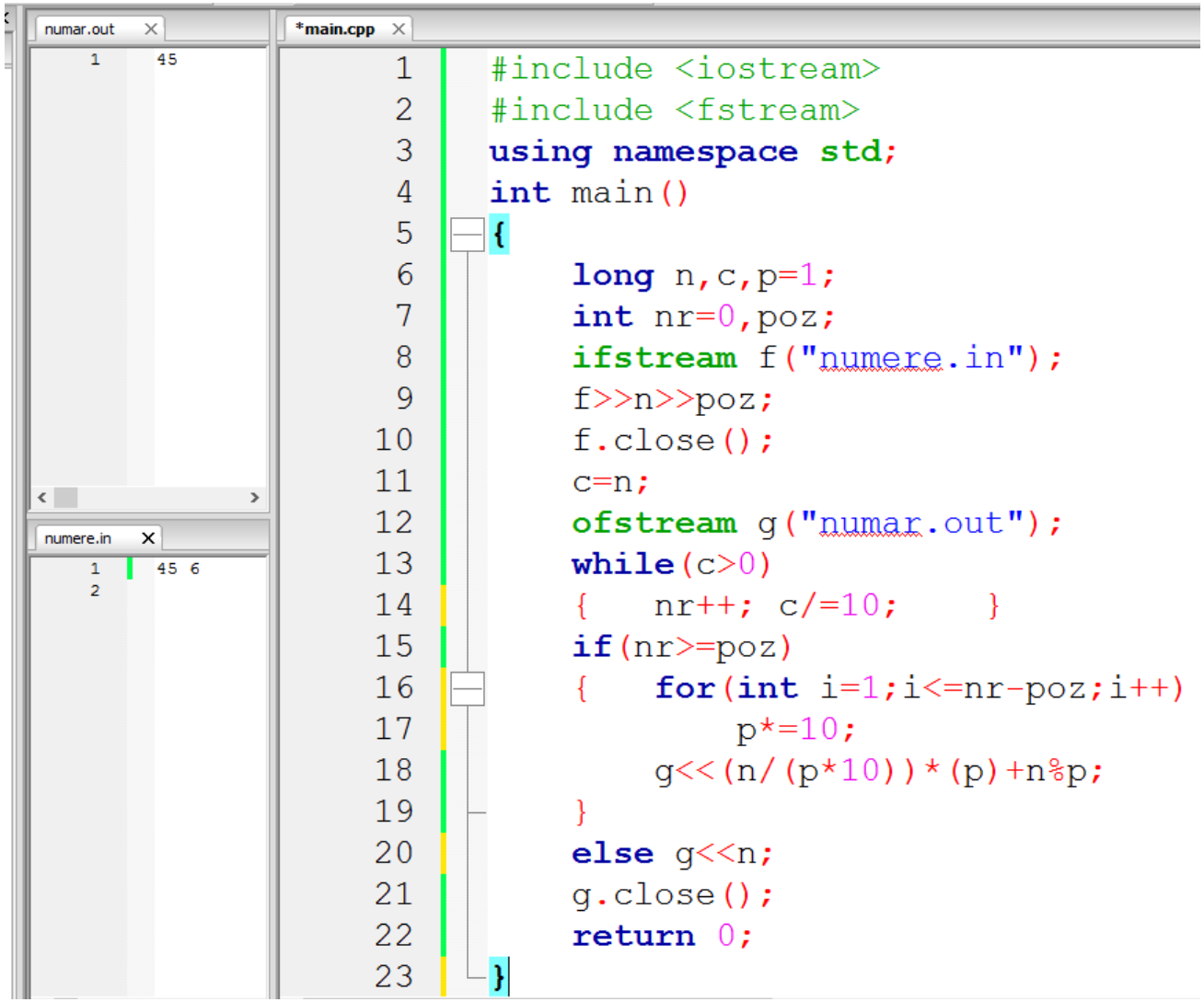
```
1 11
2 2
3 3
4
```

main.cpp

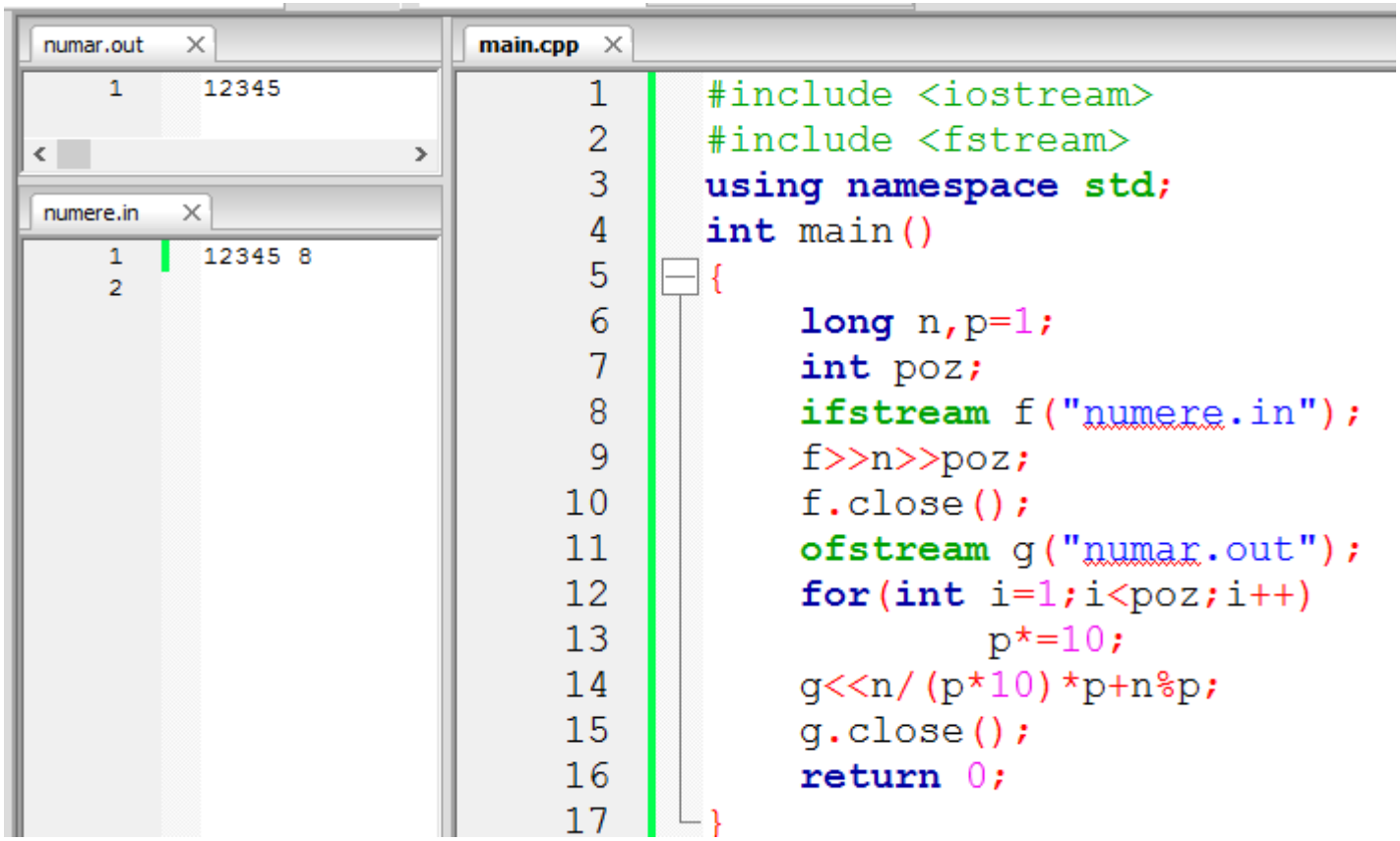
```
#include <iostream>
#include <fstream>
using namespace std;
int main()
{
    long n,c,p;
    int m,k,r,nr,cif;
    ifstream f("numere.in");
    f>>n>>cif>>p;
    f.close();
    c=n;
    ofstream g("numar.out");
    m=0;k=1;r=1;
    while(c>0 or r<=p)
    {
        if(r==p)m+=cif*k;
        else {m+=c%10*k;c/=10;}
        r++;
        k*=10;

    }
    g<<m;
    g.close();
    return 0;
}
```

Tema 12


numar.out
1 45
numere.in
1 45 6
2
*main.cpp
#include <iostream>
#include <fstream>
using namespace std;
int main()
{
long n,c,p=1;
int nr=0,poz;
ifstream f("numere.in");
f>>n>>poz;
f.close();
c=n;
ofstream g("numar.out");
while(c>0)
{ nr++; c/=10; }
if(nr>=poz)
{ for(int i=1;i<=nr-poz;i++)
p*=10;
g<<(n/(p*10))*(p)+n%p;
}
else g<<n;
g.close();
return 0;
}

Tema 13


numar.out
1 12345
numere.in
1 12345 8
2
main.cpp
#include <iostream>
#include <fstream>
using namespace std;
int main()
{
long n,p=1;
int poz;
ifstream f("numere.in");
f>>n>>poz;
f.close();
ofstream g("numar.out");
for(int i=1;i<poz;i++)
p*=10;
g<<n/(p*10)*p+n%p;
g.close();
return 0;
}