

The image shows a C++ IDE with three windows. The top-left window, titled 'numere.out', displays the output '23 207751' on line 1. The bottom-left window, titled 'numar.in', displays the input '7894561' on line 1 and '2' on line 2. The main window, titled '*main.cpp', contains the following code:

```
1  #include <iostream>
2  #include <fstream>
3  using namespace std;
4  int main()
5  {
6      long n,c;
7      int s;
8      ifstream f("numar.in");
9      ofstream g("numere.out");
10     f>>n;
11     f.close();
12     s=0;c=n;
13     while(c!=0)
14     {
15         s=s+(c%10);
16         c=c/10;
17     }
18     g<<n%10<<" ";
19     g.close();
20     return 0;
21 }
22
```

Tema 2

```
numere.out x
1      8 1

numar.in x
1      245863
2

main.cpp x
3      using namespace std;
4      int main()
5      {
6          long n,c;
7          int cmax,nr;
8          ifstream f("numar.in");
9          ofstream g("numere.out");
10         f>>n;
11         f.close();
12         cmax=0;c=n;
13         while(c!=0)
14         {
15             if(c%10>cmax)
16                 cmax=c%10;
17             c=c/10;
18         }
19         nr=0;c=n;
20         while(c!=0)
21         {
22             if(c%10==cmax)
23                 nr++;
24             c=c/10;
25         }
26         g<<cmax<<' ' <<nr;
27         g.close();
28         return 0;
29     }
```

Tema 3

The image shows a C++ IDE with three windows: 'numere.out', 'numar.in', and 'main.cpp'. The 'main.cpp' window contains the following code:

```
2 #include <fstream>
3 using namespace std;
4 int main()
5 {
6     long n, c;
7     int cmin, nr;
8     ifstream f("numar.in");
9     ofstream g("numere.out");
10    f >> n;
11    f.close();
12    cmin=10; c=n;
13    while(c!=0)
14    {
15        if(c%10 < cmin)
16            cmin=c%10;
17        c=c/10;
18    }
19    nr=0; c=n;
20    while(c!=0)
21    {
22        if(c%10==cmin)
23            nr++;
24        c=c/10;
25    }
26    g << cmin << ' ' << nr;
27    g.close();
28    return 0;
29 }
```

The 'numere.out' window shows the output: '1 1 3'. The 'numar.in' window shows the input: '1 4516112' and '2'.

Tema 4

The image shows a C++ IDE with three windows: 'numere.out', 'numar.in', and 'main.cpp'. The 'numere.out' window displays the output '1 4'. The 'numar.in' window displays the input '5456955 5' on the first line and a cursor on the second line. The 'main.cpp' window shows the following code:

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

Tema 5

```
numere.out x
1 DA

numar.in x
1 1331
2

main.cpp x
1 #include <iostream>
2 #include <fstream>
3 using namespace std;
4 int main()
5 {
6     long n,c,ogl;
7     ifstream f("numar.in");
8     ofstream g("numere.out");
9     f>>n;
10    f.close();
11    ogl=0;c=n;
12    while(c!=0)
13    {
14        ogl=ogl*10+(c%10);
15        c=c/10;
16    }
17    if(n==ogl)
18        g<<"DA";
19    else g<<"NU";
20    g.close();
21    return 0;
22 }
```

Tema 6

The image shows a C++ IDE with three windows. The top-left window, titled 'numere.out', displays the output of a program: '1 54 73'. The bottom-left window, titled 'numar.in', shows the input: '1 549873', '2', and '3'. The main window, titled 'main.cpp', contains the following code:

```
1 #include <iostream>
2 #include <fstream>
3 using namespace std;
4 int main()
5 {
6     long n, c, ogl;
7     ifstream f("numar.in");
8     ofstream g("numere.out");
9     f >> n;
10    f.close();
11    c = n;
12    while (c > 99)
13        c = c / 10;
14    g << c << " " << n % 100;
15    g.close();
16    return 0;
17 }
18
```

Tema 7