

```
main.cpp X
1 #include <iostream>
2 #include<fstream>
3
4 using namespace std;
5
6 int main()
7 {
8     ifstream f("numere.in");
9     int a1,a2,a3,a4,a5,a6,a7,a8;
10    f>>a1>>a2>>a3>>a4>>a5>>a6>>a7>>a8;
11    f.close();
12    ofstream g("ocifra.out");
13    ofstream h("douacifre.out");
14    ofstream i("treicifre.out");
15    ofstream j("patrucifre.out");
16    if(a1<10)g<<a1<<endl; else if (a1<100)h<<a1<<endl; else if (a1<1000)i<<a1<<endl; else if(a1<10000)j<<a1<<endl;
17    if(a2<10)g<<a2<<endl; else if (a2<100)h<<a2<<endl; else if (a2<1000)i<<a2<<endl; else if(a2<10000)j<<a2<<endl;
18    if(a3<10)g<<a3<<endl; else if (a3<100)h<<a3<<endl; else if (a3<1000)i<<a3<<endl; else if(a3<10000)j<<a3<<endl;
19    if(a4<10)g<<a4<<endl; else if (a4<100)h<<a4<<endl; else if (a4<1000)i<<a4<<endl; else if(a4<10000)j<<a4<<endl;
20    if(a5<10)g<<a5<<endl; else if (a5<100)h<<a5<<endl; else if (a5<1000)i<<a5<<endl; else if(a5<10000)j<<a5<<endl;
21    if(a6<10)g<<a6<<endl; else if (a6<100)h<<a6<<endl; else if (a6<1000)i<<a6<<endl; else if(a6<10000)j<<a6<<endl;
22    if(a7<10)g<<a7<<endl; else if (a7<100)h<<a7<<endl; else if (a7<1000)i<<a7<<endl; else if(a7<10000)j<<a7<<endl;
23    if(a8<10)g<<a8<<endl; else if (a8<100)h<<a8<<endl; else if (a8<1000)i<<a8<<endl; else if(a8<10000)j<<a8<<endl;
24    g.close();
25    h.close();
26    i.close();
27    j.close();
28    return 0;
29 }
```

numere.in X

1	45
2	2100
3	375
4	82
5	528
6	9
7	5456
8	12345
9	

1	45
2	82
3	

1	375
2	528
3	

1	2100
2	5456
3	

1	9
2	

```
main.cpp X
1 #include <iostream>
2 #include<fstream>
3
4 using namespace std;
5
6 int main()
7 {
8     ifstream f("numere.in");
9     int a1,a2,a3,a4,a5,a6,a7,a8;
10    f>>a1>>a2>>a3>>a4>>a5>>a6>>a7>>a8;
11    f.close();
12    ofstream g("divi5.out");
13    ofstream h("divi8.out");
14    ofstream i("divi9.out");
15    ofstream j("divi11.out");
16    if(a4%5==0)g<<a4<<endl; if(a4%8==0)h<<a4<<endl; if(a4%9==0)i<<a4<<endl; if(a4%11==0)j<<a4<<endl;
17    if(a2%5==0)g<<a2<<endl; if(a2%8==0)h<<a2<<endl; if(a2%9==0)i<<a2<<endl; if(a2%11==0)j<<a2<<endl;
18    if(a3%5==0)g<<a3<<endl; if(a3%8==0)h<<a3<<endl; if(a3%9==0)i<<a3<<endl; if(a3%11==0)j<<a3<<endl;
19    if(a4%5==0)g<<a4<<endl; if(a4%8==0)h<<a4<<endl; if(a4%9==0)i<<a4<<endl; if(a4%11==0)j<<a4<<endl;
20    if(a5%5==0)g<<a5<<endl; if(a5%8==0)h<<a5<<endl; if(a5%9==0)i<<a5<<endl; if(a5%11==0)j<<a5<<endl;
21    if(a6%5==0)g<<a6<<endl; if(a6%8==0)h<<a6<<endl; if(a6%9==0)i<<a6<<endl; if(a6%11==0)j<<a6<<endl;
22    if(a7%5==0)g<<a7<<endl; if(a7%8==0)h<<a7<<endl; if(a7%9==0)i<<a7<<endl; if(a7%11==0)j<<a7<<endl;
23    if(a8%5==0)g<<a8<<endl; if(a8%8==0)h<<a8<<endl; if(a8%9==0)i<<a8<<endl; if(a8%11==0)j<<a8<<endl;
24    g.close();
25    h.close();
26    i.close();
27    j.close();
28    return 0;
29 }
30
```

numere.in X

1	7 56 9 707 708 709 99 39600
2	

divi8.out X

1	56
2	39600
3	

divi9.out X

1	9
2	99
3	39600
4	

divi11.out X

1	99
2	39600
3	

divi5.out X

1	39600
2	

The screenshot shows a C++ IDE with three windows: 'numar.in', 'main.cpp', and 'numere.out'. The 'numar.in' window contains the input numbers 1, 2, 9, and 19. The 'main.cpp' window contains the following code:

```
1 #include <iostream>
2 #include <fstream>
3
4 using namespace std;
5
6 int main()
7 {
8     ifstream f("numar.in");int x;f>>x;f.close();
9     ofstream g("numere.out");
10    g<<x%10<<' '<<x/10<<endl;
11    g<<x%10+x/10<<' '<<x%10*x/10<<endl;
12    if(x%10<x/10) g<<x%10<<' '<<x/10<<endl; else g<<x/10<<' '<<x%10<<endl;
13    g<<101*x<<endl;
14    if(x%10%2==1 && x/10%2==1)g<<x/10*1100+x%10*11<<endl;else if(x%10%2==1)g<<x%10*11<<endl; else if(x/10%2==1) g<<x/10*11<<endl;
15    g<<x%10*10+x/10<<endl;
16    g.close();
17    return 0;
18 }
19
```

The 'numere.out' window shows the output for each input number:

1	9 1
2	10 17
3	1 9
4	1919
5	1199
6	91
7	

The screenshot shows a C++ IDE with three windows: 'numar.in', 'main.cpp', and 'numere.out'. The 'numar.in' window contains the input number 1234. The 'main.cpp' window contains the following code:

```
1 #include <iostream>
2 #include <fstream>
3
4 using namespace std;
5
6 int main()
7 {
8     ifstream f("numar.in"); int x; f >> x; f.close();
9     ofstream g("numere.out");
10    g << x/1000 << " " << x/100%10 << " " << x/10%10 << " " << x%10 << endl;
11    g << (x/1000) * (x/1000) + (x/100%10) * (x/100%10) + (x/10%10) * (x/10%10) + (x%10) * (x%10) << endl;
12    g << (x%10) * 1000 + (x/10%10) * 10 + x/1000 << endl;
13    g << (x/1000) * 1000 + (x/10%10) * 100 + (x/100%10) * 10 + x%10 << endl;
14    g << (x%10) * 1000 + (x/10%10) * 100 + (x/100%10) * 10 + x/1000 << endl;
15    g.close();
16    return 0;
17 }
18
```

The 'numere.out' window shows the output of the program:

1	1 2 3 4
2	30
3	4231
4	1324
5	4321
6	

