

The screenshot shows a C++ IDE with the following components:

- main.cpp**: The main source file containing the program logic. It reads six integers from 'numere.in' and checks their divisibility by 6, 7, and 8. The results are written to 'divi6.out', 'divi7.out', and 'divi8.out'.
- numere.in**: An input file containing the numbers 1 and 2.
- divi6.out**: An output file showing that both 1 and 2 are divisible by 6 (708).
- divi7.out**: An output file showing that 1 is not divisible by 7 (7) and 2 is (56).
- divi8.out**: An output file showing that 1 is not divisible by 8 (56) and 2 is (707).

```
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;
10     f>>a1>>a2>>a3>>a4>>a5>>a6;
11     f.close();
12     ofstream g("divi6.out");
13     ofstream h("divi7.out");
14     ofstream i("divi8.out");
15     if(a1%6==0)g<<a1<<endl; if (a1%7==0)h<<a1<<endl; if(a1%8==0)i<<a1<<endl;
16     if(a2%6==0)g<<a2<<endl; if (a2%7==0)h<<a2<<endl; if(a2%8==0)i<<a2<<endl;
17     if(a3%6==0)g<<a3<<endl; if (a3%7==0)h<<a3<<endl; if(a3%8==0)i<<a3<<endl;
18     if(a4%6==0)g<<a4<<endl; if (a4%7==0)h<<a4<<endl; if(a4%8==0)i<<a4<<endl;
19     if(a5%6==0)g<<a5<<endl; if (a5%7==0)h<<a5<<endl; if(a5%8==0)i<<a5<<endl;
20     if(a6%6==0)g<<a6<<endl; if (a6%7==0)h<<a6<<endl; if(a6%8==0)i<<a6<<endl;
21     g.close();
22     h.close();
23     i.close();
24     return 0;
25 }
26
```

numere.in

1	7 56 9 707 708 709
2	

divi6.out

1	708
2	

divi7.out

1	7
2	56
3	707
4	

divi8.out

1	56
2	

The screenshot displays a C++ IDE with five open files. The main file, `main.cpp`, contains the following code:

```
1 #include <iostream>
2 #include <fstream>
3
4 using namespace std;
5
6 int main()
7 {
8     fstream f("numere.in");
9     int a,b,c;
10    f>>a>>b>>c;
11    f.close();
12    ofstream g("suma.out");
13    g<<a+b+c;
14    g.close();
15    ofstream h("produs.out");
16    h<<a*b*c;
17    h.close();
18    ofstream i("patrate.out");
19    i<<a*a+b*b+c*c;
20    i.close();
21    ofstream j("cuburi.out");
22    j<<a*a*a+b*b*b+c*c*c;
23    j.close();
24    return 0;
25 }
26
```

The other four files show the input and output data:

- `numere.in`:
1 17 18 19
2
- `suma.out`:
1 54
- `patrate.out`:
1 974
- `cuburi.out`:
1 17604
- `produs.out`:
1 5814

```
main.cpp
1  #include <iostream>
2  #include<fstream>
3
4  using namespace std;
5
6  int main()
7  {
8      ifstream z("numere.in");
9      int a,b,c,d,e,f;
10     z>>a>>b>>c>>d>>e>>f;
11     z.close();
12     ofstream g("3k.out");
13     ofstream h("3kplus1.out");
14     ofstream i("3kplus2.out");
15     if(a%3==0)g<<a<<' '; else if(a%3==1)h<<a<<' ';else i<<a<<' ';
16     if(b%3==0)g<<b<<' '; else if(b%3==1)h<<b<<' ';else i<<b<<' ';
17     if(c%3==0)g<<c<<' '; else if(c%3==1)h<<c<<' ';else i<<c<<' ';
18     if(d%3==0)g<<d<<' '; else if(d%3==1)h<<d<<' ';else i<<d<<' ';
19     if(e%3==0)g<<e<<' '; else if(e%3==1)h<<e<<' ';else i<<e<<' ';
20     if(f%3==0)g<<f<<' '; else if(f%3==1)h<<f<<' ';else i<<f<<' ';
21     g.close();
22     h.close();
23     i.close();
24     return 0;
25 }
26
```

numere.in

1	45
2	21
3	3
4	8
5	5431
6	543
7	

3k.out

1	45 21 3 543
---	-------------

3kplus1.out

1	5431
---	------

3kplus2.out

1	8
---	---

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

```

douacifre.out X

```

1  45
2  82
3

```

treicifre.out X

```

1  375
2  528
3

```

patrucifre.out X

```

1  2100
2  5456
3

```

ocifra.out X

```

1  9
2

```