

## ARRAY1.CPP source

```
01: /*
02:  * Q: Read N numbers into an array
03:  * and print those which are larger than
04:  * the average
05:  */
06:
07: #include <iostream>
08:
09: using namespace std;
10:
11: int main() {
12:
13:     //Defining variables
14:     int array[100]; //to store umbers entered by user
15:     int N;          //how many items will be entered
16:     int avg;        //to store average of numbers in array
17:
18:     cout<<"How many numbers would you like: ";
19:     cin>>N;
20:     cout<<"Enter the numbers:"<<endl;
21:
22:     //Reading into array[0], array[1],
23:     //array[2]....., array[N-1]
24:     for(int i=0; i<N; i++) {
25:         cin>>array[i];
26:     }
27:
28:     avg=0;
29:
30:     //Average = Sum of all numbers / Total number of items
31:
32:     //Step 1: Sum of all numbers
33:     //avg = array[0] + .... + array[N-1]
34:     for(int i=0; i<N; i++) {
35:         avg+=array[i];
36:     }
37:
38:     //Step 2: Divide by total number of items
39:     avg/=N;
40:
41:     cout<<endl<<"The average is: "<<avg<<endl;
42:     cout<<endl;
43:     cout<<"The numbers greater than average are:"<<endl;
44:
45:     //if array[0]>avg, print array[0] ... array[N-1]>avg, print array[N-1]
46:     for(int i=0; i<N; i++) {
47:         if(array[i]>avg) cout<<array[i]<<endl;
48:     }
49:     cout<<endl;
50:
51:     //Tell the operating system that everything is OK (exit code 0)
52:     //More info in higher classes
53:     return 0;
54: }
55:
```

## ARRAY1.CPP output

```
01: How many numbers would you like: 10
02: Enter the numbers:
03: 1
04: 2
05: 3
06: 4
07: 5
08: 6
09: 7
10: 8
11: 9
12: 10
13:
14: The average is: 5
15:
16: The numbers greater than average are:
17: 6
18: 7
19: 8
20: 9
21: 10
22:
23:
```