

```
1  #include <stdio.h>
2
3  #define NUM_ELEMENTS 10
4
5  int main(void)
6  {
7      //variable declarations
8      int iArray[NUM_ELEMENTS];
9      int i, num, sum = 0;
10
11     //code
12     printf("\n\n");
13
14     // *** ARRAY ELEMENTS INPUT ***
15     printf("Enter Integer Elements For Array : \n\n");
16     for (i = 0; i < NUM_ELEMENTS; i++)
17     {
18         scanf("%d", &num);
19         iArray[i] = num;
20     }
21
22     // *** SEPARATING OUT EVEN NUMBERS FROM ARRAY ELEMENTS ***
23     printf("\n\n");
24     printf("Even Numbers Amongst The Array Elements Are : \n\n");
25     for (i = 0; i < NUM_ELEMENTS; i++)
26     {
27         if ((iArray[i] % 2) == 0)
28             printf("%d\n", iArray[i]);
29     }
30
31     // *** SEPARATING OUT ODD NUMBERS FROM ARRAY ELEMENTS ***
32     printf("\n\n");
33     printf("Odd Numbers Amongst The Array Elements Are : \n\n");
34     for (i = 0; i < NUM_ELEMENTS; i++)
35     {
36         if ((iArray[i] % 2) != 0)
37             printf("%d\n", iArray[i]);
38     }
39
40     return(0);
41 }
42
43
```