

```
main.c
7
8
9 #include <stdio.h>
10 #include <time.h>
11 int main()
12 {
13     int n, i, j, temp;
14     clock_t start, end;
15     printf("Enter number of elements\n");
16     scanf("%d", &n);
17     int arr[n];
18     printf("\n The elements are: \n");
19     for(i=0;i<n;i++)
20     {
21         arr[i] = rand()%10000;
22         printf("%d ",arr[i]);
23     }
24     start=clock();
25     for(i=0;i<800000000;i++);
26     for (i = 1 ; i <= n - 1; i++)
27     {
28         j = i;
29         while ( j > 0 && arr[j-1] > arr[j])
30         {
31             temp = arr[j];
32             arr[j] = arr[j-1];
33             arr[j-1] = temp;
34             j--;
35         }
36     }
37 }
```

```
main.c
18 printf("\n The elements are: \n");
19 for(i=0;i<n;i++)
20 {
21     arr[i] = rand()%10000;
22     printf("%d ",arr[i]);
23 }
24 start=clock();
25 for(i=0;i<80000000;i++);
26 for (i = 1 ; i <= n - 1; i++)
27 {
28     j = i;
29     while ( j > 0 && arr[j-1] > arr[j])
30     {
31         temp    = arr[j];
32         arr[j]   = arr[j-1];
33         arr[j-1] = temp;
34         j--;
35     }
36 }
37 end=clock();
38 printf("\n Time taken to sort %d numbers is %f Secs\n",n, (((double)(end-start))/CLOCKS_PER_SEC));
39 printf("The list after sorted in asernding order :\n");
40 for (i = 0; i <= n - 1; i++)
41 {
42     printf("%d\n", arr[i]);
43 }
44 return 0;
45 }
46
```

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⚡ input

```
main.c:21:18: warning: implicit declaration of function 'rand' [-Wimplicit-function-declaration]
    arr[i] = rand()%10000;
               ^~~~~
Enter number of elements
10

The elements are:
9383 886 2777 6915 7793 8335 5386 492 6649 1421
Time taken to sort 10 numbers is 0.171016 Secs
The list after sorted in asernding order :
492
886
1421
2777
5386
6649
6915
7793
8335
9383

...Program finished with exit code 0
Press ENTER to exit console.
```

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