Bubble Sort in C

```
#include<stdio.h>
#include<time.h>
void bubble_sort(int [],int);
void main()
{
int i,n,a[10];
printf("Enter size:\n");
scanf("%d",&n);
printf("Enter array elements:\n");
for(i=0;i<n;i++)
scanf("%d",&a[i]);
bubble_sort(a,n);
}
void bubble_sort(int a[],int n)
{
clock_t start_t, end_t, total_t;
start_t = clock();
printf("Starting of the function, start t = %Id n", start t);
int t,i,j;
for(i=1;i<n;i++)
{
for(j=0;j<n-i;j++)
{
if(a[j]>a[j+1]){
```

```
t=a[j];
a[j]=a[j+1];
a[j+1]=t;
}
}
}
printf("\nIn Ascending order:");
for(i=0;i<n;i++)
printf("%d\t",a[i]);
end_t = clock();
printf("\nEnd of the function, end_t = %Id\n", end_t);
total_t = (double)(end_t - start_t) / CLOCKS_PER_SEC;
printf("Total time taken by CPU: %d\n", total_t );
printf("Exiting of the program...\n");
}
Output:
Enter size:
5
Enter array elements:
38492
Starting of the function, start_t = 15788
In Ascending order:2 3
                                       9
End of the function, end_t = 15788
Total time taken by CPU: 0
Exiting of the program...
```