Insertion Sort

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```
#include <stdio.h>
#include <time.h>
void insertionSort (int arr[], int n)
 {
int i, key, j;
 for(i=1; i<n; i++)
  {
  key = arr[i];
  j = i-1;
while (j>=0 && arr[j]>key)
   {
  arr[j+1] = arr[j];
    j = j-1;
 }
 arr[j+1] = key;
  }
 }

Void printarray( int arr[], int n)
 {
  int i;
  for(i=0; i<n; i++)
  Printf ("%d", arr[i]);
  Printf ("\n");
 int main ()
 {
int arr[] = {2, 3, 4, 5, 6};
```

```
int n= sizeof(arr)/ sizeof(arr[0]);
scanf("%d", &n);
clock_t start, end;
double time_u;
start = clock();
time_u = (double)(end.start)/(CLOCKS_PER_SEC);
printf("time complexity = %f s", time_u);
return 0;
}
```