Assignment 11

```
Before sorting array elements are -
After sorting array elements are -
   12 17 25 31 32
#include <stdio.h>
void insert(int a[], int n) /* function to sort an aay with insertion sort */
{
  int i, j, temp;
  for (i = 1; i < n; i++) {
    temp = a[i];
    j = i - 1;
    while(j>=0 && temp <= a[j]) /* Move the elements greater than temp to one position
ahead from their current position*/
    {
       a[j+1] = a[j];
      j = j-1;
    }
    a[j+1] = temp;
  }
}
void printArr(int a[], int n) /* function to print the array */
{
```

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  int i;
  for (i = 0; i < n; i++)
     printf("%d ", a[i]);
}
int main()
{
  int a[] = { 12, 31, 25, 8, 32, 17 };
  int n = sizeof(a) / sizeof(a[0]);
  printf("Before sorting array elements are - \n");
  printArr(a, n);
  insert(a, n);
  printf("\nAfter sorting array elements are - \n");
  printArr(a, n);
  return 0;
}
```