Question 1

1. Write the function for insertion sort.

#include<stdio.h>

void bubble\_sort(int a[], int n);

int main()

{

int arr[] = {9, 5, 8, 0, 2}, i;

bubble\_sort(arr, 5);

for(i = 0; i < 5; i++)

{

printf("%d", arr[i]);

}

return 0;

}

void bubble\_sort(int a[], int n)

{

int swapped, i, j, temp;

for(i = 0; i < n; i++)

{

swapped = 0;

for(j = 0; j < n - 1 - i; j++)

{

if(a[j] > a[j + 1])

{

temp = a[j];

a[j] = a[j + 1];

a[j + 1] = temp;

swapped = 1;

}

}

if(swapped == 0)

break;

}

}

