```c
#include<stdio.h>
struct bsort
{
    int array[100];
};
int main()
{
    struct bsort b;
    int n,i,j,swap;
    printf("Enter the no of elements:\n");
    scanf("%d", &n);
    printf("Enter the %d integers",n);
    for(i=0;i<n;i++)
    {
        scanf("%d", &b.array[i]);
    }
    for(i=0;i<n-1;i++)
    {
        for(j=0;j<n-i-1;j++)
        {
            if(b.array[j]>b.array[j+1])
            {
                swap=b.array[j];
```

0:0

Open File   ✓ Custom Input

Custom Input

```
5
2 5 3 7 4
```

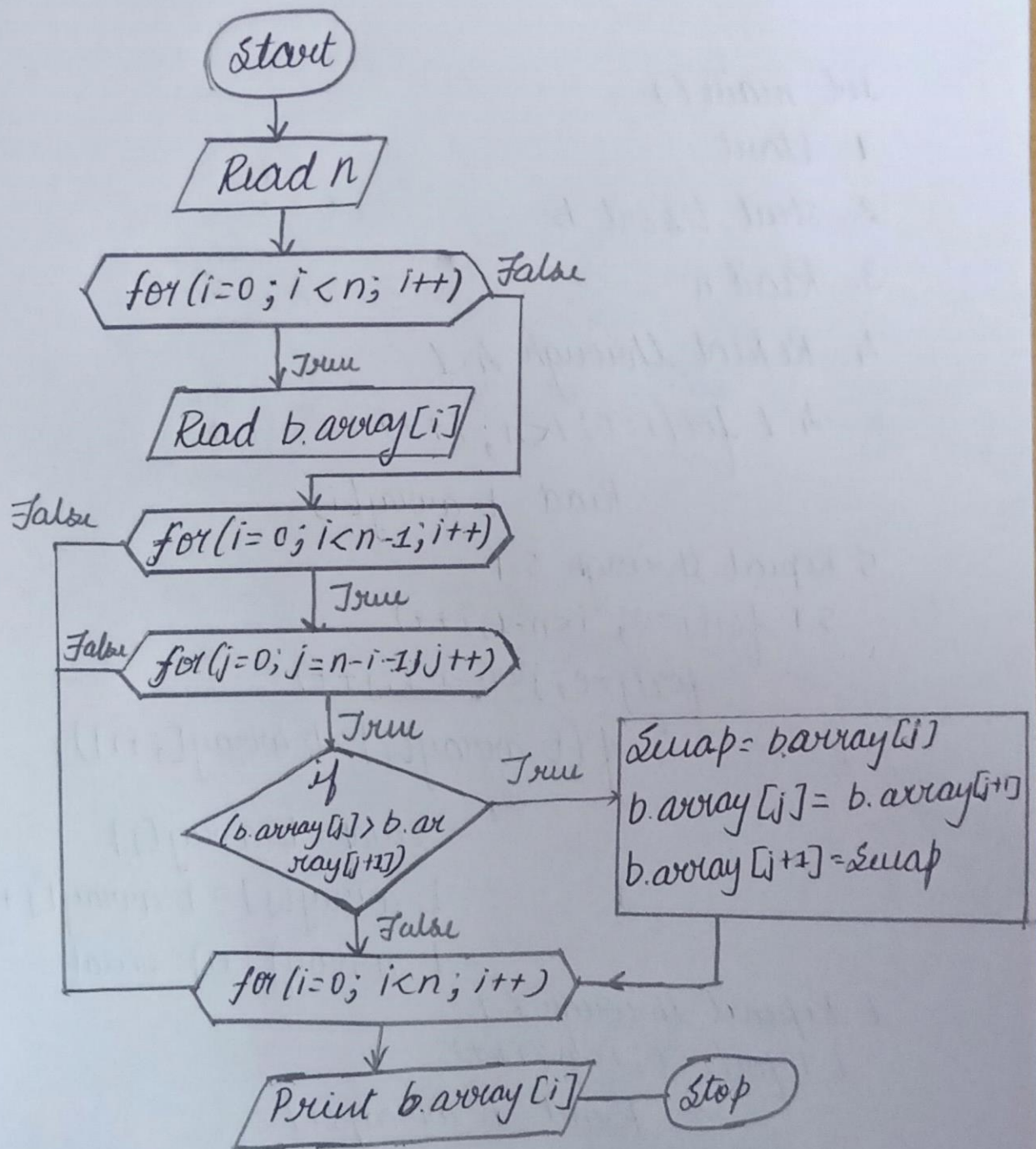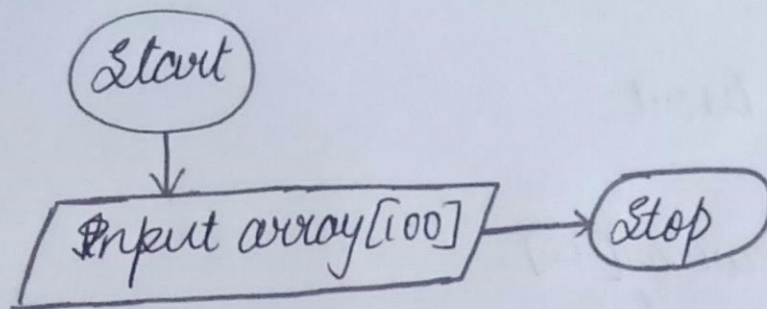Status Successfully executed   Date 2020-07-15 10:09:23   Time 0 sec   Mem 9.424 kB

Input

```
5
2 5 3 7 4
```

Output

```
Enter the no of elements:
Enter the 5 integersThe sorted array is:
2   3   4   5   7
```

Flowchart

```
        ( Start )
            │
            ▼
   / Input array[100] / ────────▶ ( Stop )


        ( Start )
            │
            ▼
      / Read n /
            │
            ▼
   < for(i=0; i<n; i++) > ──── False
            │ True
            ▼
   / Read b.array[i] /
            │
            ▼
   < for(i=0; i<n-1; i++) > ──── False
            │ True
            ▼
   < for(j=0; j=n-i-1; j++) > ──── False
            │ True
            ▼
         ◇ if
      (b.array[j] > b.array[j+1]) ──── True ──▶  ┌──────────────────────────────┐
            │ False                              │ Swap = b.array[j]            │
            │                                    │ b.array[j] = b.array[j+1]    │
            ▼                                    │ b.array[j+1] = Swap          │
   < for(i=0; i<n; i++) > ◀──────────────────── └──────────────────────────────┘
            │
            ▼
   / Print b.array[i] / ──────── ( Stop )
```

Algorithm

struct bsort

0. start
1. start
2. Read array[100]
3. stop

int main ()

1. start
2. struct bsort b
3. Read n
4. Repeat through 4.1
   4.1 for (i=0; i<n; i++)
          Read b.array[i]
5. Repeat through 5.1
   5.1 for(i=0; i<n-1; i++)
        for(j=0; j<n-i-1; j++)
          if (b.array[j] > b.array[j+1])

                swap = b.array [j]
                b.array[j] = b.array[j+1]
                b.array [j+1]=swap

6. Repeat through 6.1
   6.1 for(i=0; i<n; i++)
          Print b.array [i]
7. stop.