INSERT SORTED

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/***
              Program to Insert an Element into Sorted Array ****/
#include <stdio.h>
void insert sorted();
int a[50], n, item;
main()
{
     int i;
     printf("\nEnter size of an array: ");
     scanf("%d", &n);
     printf("\nEnter sorted elements of an array:\n");
     for(i=0; i<n; i++)
          scanf("%d", &a[i]);
     printf("\nEnter ITEM to insert: ");
     scanf("%d", &item);
     insert sorted();
     printf("\n\nAfter insertion:\n");
     for(i=0; i<n; i++)
          printf("\n%d", a[i]);
     getch();
}
void insert sorted()
     int i = n-1;
     while (item<a[i] && i \ge 0)
          a[i+1] = a[i];
          i--;
     a[i+1] = item;
     n++;
}
```