INSERT

#include <stdio.h>

int main() {

int arr[100], n, pos, value, i; // declare i once

printf("Enter number of elements in array (max 100): ");

scanf("%d", &n);

if(n > 100 || n < 1) {

printf("Invalid number of elements.\n");

return 1;

}

// Use the already declared i

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

printf("Enter element %d: ", i + 1);

scanf("%d", &arr[i]);

}

printf("Enter the position where you want to insert the element: ");

scanf("%d", &pos);

if(pos < 1 || pos > n + 1) {

printf("Invalid position.\n");

return 1;

}

printf("Enter the value to insert: ");

scanf("%d", &value);

for(i = n - 1; i >= pos - 1; i--) {

arr[i + 1] = arr[i];

}

arr[pos - 1] = value;

n++;

printf("Array after insertion:\n");

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

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

}

return 0;

}

