26.insert the string in the given array

#include <stdio.h>

void insertAtPosition(int list[], int \*size, int position, int number)

{

if (position < 0 || position > \*size)

{

printf("Invalid position.\n");

return;

}

for (int i = \*size; i > position; i--)

{

list[i] = list[i - 1];

}

list[position] = number;

(\*size)++;

}

int main()

{

int list[100];

int size = 0;

printf("Enter the number of elements in the list: ");

scanf("%d", &size);

printf("Enter the elements of the list:\n");

for (int i = 0; i < size; i++)

{

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

}

int position, number, choice;

printf("Testing Conditions:\n");

printf("1. Insert at the beginning\n");

printf("2. Insert in the middle\n");

printf("3. Insert at the end\n");

printf("4. Insert at not available position\n");

printf("Choose a test case (1-4): ");

scanf("%d", &choice);

switch (choice)

{

case 1:

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

scanf("%d", &number);

insertAtPosition(list, &size, 0, number);

break;

case 2:

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

scanf("%d", &position);

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

scanf("%d", &number);

insertAtPosition(list, &size, position, number);

break;

case 3:

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

scanf("%d", &number);

insertAtPosition(list, &size, size, number);

break;

case 4:

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

scanf("%d", &position);

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

scanf("%d", &number);

insertAtPosition(list, &size, position, number);

break;

default:

printf("Invalid choice.\n");

}

printf("Updated list:\n");

for (int i = 0; i < size; i++)

{

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

}

printf("\n");

return 0;

}

OUTPUT

