

1.

```
9 #include <stdio.h>
10 void swap(int *x, int *y) {
11     int temp = *x;
12     *x = *y;
13     *y = temp;
14 }
15 int main() {
16     int num1, num2;
17     printf("Enter the first integer: ");
18     scanf("%d", &num1);
19     printf("Enter the second integer: ");
20     scanf("%d", &num2);
21
22     // Displaying numbers before swapping
23     printf("Before swapping:\n");
24     printf("First integer = %d, Second integer = %d\n", num1, num2);
25
26     // Calling the swap function
27     swap(&num1, &num2);
28
29     // Displaying numbers after swapping
30     printf("After swapping:\n");
31     printf("First integer = %d, Second integer = %d\n", num1, num2);
32
33     return 0;
34 }
```

input

```
Enter the first integer: 10
Enter the second integer: 20
Before swapping:
First integer = 10, Second integer = 20
After swapping:
First integer = 20, Second integer = 10
```

2.

```
8 ****
9 #include <stdio.h>
10 int main() {
11     int size, i;
12     int *ptr;
13
14     // Prompt the user for the size of the array
15     printf("Enter the size of the array: ");
16     scanf("%d", &size);
17
18     int arr[size]; // Declare the array of the given size
19     ptr = arr; // Point ptr to the array
20
21     // Prompt the user to enter the integer values
22     printf("Enter %d integers: ", size);
23     for(i = 0; i < size; i++) {
24         scanf("%d", (ptr + i));
25     }
26
27     // Initialize largest and smallest with the first element of the array
28     int largest = *ptr, smallest = *ptr;
29
30
31     // Traverse the array to find the largest and smallest elements
32     for(i = 0; i < size; i++) {
33         if(*(ptr + i) > largest) {
34             largest = *(ptr + i);
35         }
36         if(*(ptr + i) < smallest) {
37             smallest = *(ptr + i);
38         }
39
40     // Display the largest and smallest values
41     printf("Largest value: %d\n", largest);
42     printf("Smallest value: %d\n", smallest);
43
44     return 0;
45 }
```

Largest value: 5
Smallest value: 1

3. (Skip)

4. .

```
8 ****
9 #include <stdio.h>
10
11 void print_array(int *arr, int size) {
12     int i;
13     for (i = 0; i < size; i++) {
14         printf("%d ", *(arr + i));
15     }
16     printf("\n");
17 }
18
19 int main() {
20     int arr[] = {1, 2, 3, 4, 5};
21     // Modification: Initialize ptr to point to the third element of the array
22     int *ptr = arr + 2;
23     // Call print_array with ptr pointing to the third element and size 3
24     print_array(ptr, 3);
25     return 0;
26 }
27 
```

input

```
3 4 5
```