



An air line uses an array to do their seat reservations. Seats are numbered from 1 to 10. In the array, each element represents a seat number as shown below.

0	1	2	3	4	5	6	7	8	9
S1	S2	S3	S4	S5	S6	S7	S8	S9	S10

If a seat is available it is indicated by setting the array element to 0 and if a seat is reserved it is indicated by setting the array element to 1.

Write a C program to implement the above described seat reservation system.

- Declare an one dimensional integer array called **seat** of size 5.
- Initialize all the array elements to zero.
- Ask the user to input the seat number (1 to 10) that he/she wants to reserve. If the seat is available do the reservation. If not display a message to the user, saying that the seat is already reserved. You should read the responses until user input -1. If the user input a number less than 1 or greater than 10, display an error message.

Pls input the seat number (1- 10): 2

Pls input the seat number (1- 10): 5

Pls input the seat number (1- 10): 2

Sorry. The seat 2 is reserved.

Pls input the seat number (1- 10) :7

Pls input the seat number (1- 10) :11

Sorry. Please input a valid seat number.

Pls input the seat number (1- 10): -1

- Display the reserved seat numbers.

Save your program as ITXXXXXX.c