

## Chapter 7 - Practice Set

- 1 Create an array of 10 numbers. Verify using pointer arithmetic that  $(ptr+2)$  points to the third element where  $ptr$  is a pointer pointing to the first element of the array.
- 2 If  $S[3]$  is a 1-D array of integers then  $*(S+3)$  refers to the third element:
  - (i) True
  - (ii) **False** \* $(s+2)$  refers to the 3rd element
  - (iii) Depends.
- 3 Write a program to create an array of 10 integers and store multiplication table of 5 in it.
- 4 Repeat Problem 3 for a general input provided by the user using `scanf`.
- 5 Write a program containing a function which reverses the array passed to it.
- 6 Write a program containing functions which counts the number of positive integers in an array.
- 7 Create an array of size  $3 \times 10$  containing multiplication tables of the numbers 2, 7 and 9 respectively.



8 Repeat problem 7 for a custom input given by the user.

9 Create a three-dimensional array and print the address of its elements in increasing order.