**Problem 21.1**

**Implement the following operation on a pointer to an integer array of size 4 and check for output/error.**

1. **Point it to simple integer, i.e. Initialize it with the address of an integer**
2. **Point it to first element of an array, i.e. Initialize it with the address of first element of the array**
3. **Point it to an array, i.e. Initialize it with the address of the array**
4. **Point it to 2nd 1D array in a 2d array of size 3x4, i.e. Initialize it with the address of 2nd 1D array**
   1. **Increment pointer by 1 and then access ptr[0]**
   2. **Decrement pointer by 1 and then access ptr[0]**
5. **Take a pointer to simple integer and repeat step iv with this pointer**

**Problem 21.2**

Implement the array linear search algorithm in a function called linearSearchUsingPointer using pointer/offset notation, i.e. the function should print whether a key value is found inside the array or not, but this should be done using pointer/offset notation.

**Problem 21.3**

Implement the 2D array linear search algorithm in a function called linearSearch2dUsingPointer by

1. Using pointer to integer and pointer/offset notation
2. Using pointer to an integer array and pointer/offset notation