

## Task\_3 – Ibrahim Mohamed

<https://codeforces.com/group/MWSDmqGsZm/contest/219774/my>

1. Problem: Find the first occurrence of X in an array A.

- Input: N (size), followed by N elements, then X.
- Output: Index of first X (0-indexed), or -1 if not found.
- Language: C

2. Problem: Find the minimum number in an array and its position (1-indexed).

- Input: N, followed by N numbers.
- Output: Minimum number and its position.
- Language: C

3. Problem: Sort an array using Bubble Sort or Selection Sort.

- Input: N, followed by N numbers.
- Output: Sorted array. - Language: C

4. Problem: Find the absolute difference between the sums of the two diagonals in an NxN matrix.

- Input: N, followed by N rows each with N elements.
- Output: Absolute difference between primary and secondary diagonal sums.
- Language: C

5. Problem: Horizontally mirror a 2D array (invert each row).

- Input: N rows and M columns matrix.
- Output: Matrix with rows reversed.

- Language: C

6. Problem: Max Subsequence - find maximum size of a subsequence with no two adjacent characters the same.

- Input: Integer N and string S.

- Output: Length of the desired subsequence.

- Language: C

All problems included C code and English explanation.