Write a Program for give problems

Term & conditions

\*Must be user friendly.

\*Should be generic (Template and STL can be used).

\*Error should be handled.

\*Don’t crame the code, use very very small logic and then combine to solve problem.

1. Find dot product of two vector.
2. Given N string, print unique string in lexical order with their frequency where N<=10^5
3. Given N string, and q queries, in each query you are given a string print frequency of that string. Where N <= 10^6 and Q<= 10^6
4. Reverse The array.
5. Reverse the alternate element in array.
6. Find the unique number from given array.
7. Pattern based problems
   * 1. For given n=4, print 1 2 3 4

1 2 3 4

1 2 3 4

1 2 3 4

* + 1. For given n=4, print 4 3 2 1

4 3 2 1

4 3 2 1

4 3 2 1

* + 1. For given n = 3, 1 2 3

4 5 6

7 8 9

* + 1. For given n = 3, \*

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* + 1. For given n = 3, 1

2 2

3 3 3

* + 1. For given n = 3, 1

2 3

4 5 6

* + 1. For given n = 3, 1

2 1

3 2 1

* + 1. For given n = 3, A A A

B B B

C C C

* + 1. For given n = 3, A B C

A B C

A B C

* + 1. For given n = 3, A B C

D E F

G H I

* + 1. For given n = 3, 1 2 3

2 3 4

3 4 5

* + 1. For given n = 3, A B C

B C D

C D E

* + 1. For given n = 3, A

B B

C C C

* + 1. For given n = 3, A

B C

D E F

* + 1. For given n = 3, C

B C

A B C