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

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

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

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

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* + 1. For given n = 3, 111

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3

* + 1. For given n = 3, 1

22

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

2 3

3

* + 1. For given n = 3, 1

2 3

4 5 6

* + 1. For given n = 3, 1

1 2 1

1 2 3 2 1

* + 1. For given n = 3, Dabang Pattern

8.Write a optimized program for Binary Search.

9.Write a program for Selection Sort.

10. Write a program for Bubble Sort.

11.WAP to convert Decimal to binary.

12.WAP to convert Binary to Decimal.

13. WAP to convert Decimal to binary(using array).

14. WAP for Insertion Sort.

15.WAP to reverse a integer.

16.WAP to reverse a integer using array.

17.Complement of Base 10 number.

18.if number is possible to describe in 2^x then return true.