|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  | 1 |
|  |  |  | 2 | 4 |
|  |  | 3 | 5 | 7 |
|  | 6 | 8 | 10 | 12 |
| 9 | 11 | 13 | 15 | 17 |

**Round 2 - Phase 1**

1. Print the pattern without using arrays.
2. Given a sorted array having duplicate elements. Print the elements with its frequency having more than one appearance.

Sample Input

N = 12

Array = {1,1,1,2,4,4,4,4,5,6,9,9}

Sample Output

1. >3,4->4,9->2

**Round 2 - Phase 2**

1. Given a sentence and screen length. Justify the sentence according to the screen length by replacing space with stars.

Sample Input

Sentence = Welcome to Zoho Corporation

Screen length = 34

Sample Output

Welcome\*\*\*\*to\*\*\*Zoho\*\*\*Corporation

1. Given an absolute path and print the simplified path.

Absolute path begins with ‘/’.

‘.’ represents current directory.

‘..’ represents parent directory.

Sample Input

Path = /animal/./box/..//////../cat/

Sample Output

/cat

1. Given a sorted rotated array and a key. Print the index of the key without traversing the array.

Sample Input

Array = {35,46,54,66,77,1,12}

Key = 77

Sample Output

4

\*\*\* Don’t use Collections and Built-in functions \*\*\*