

# TECHNICAL SKILLS- TASK 2

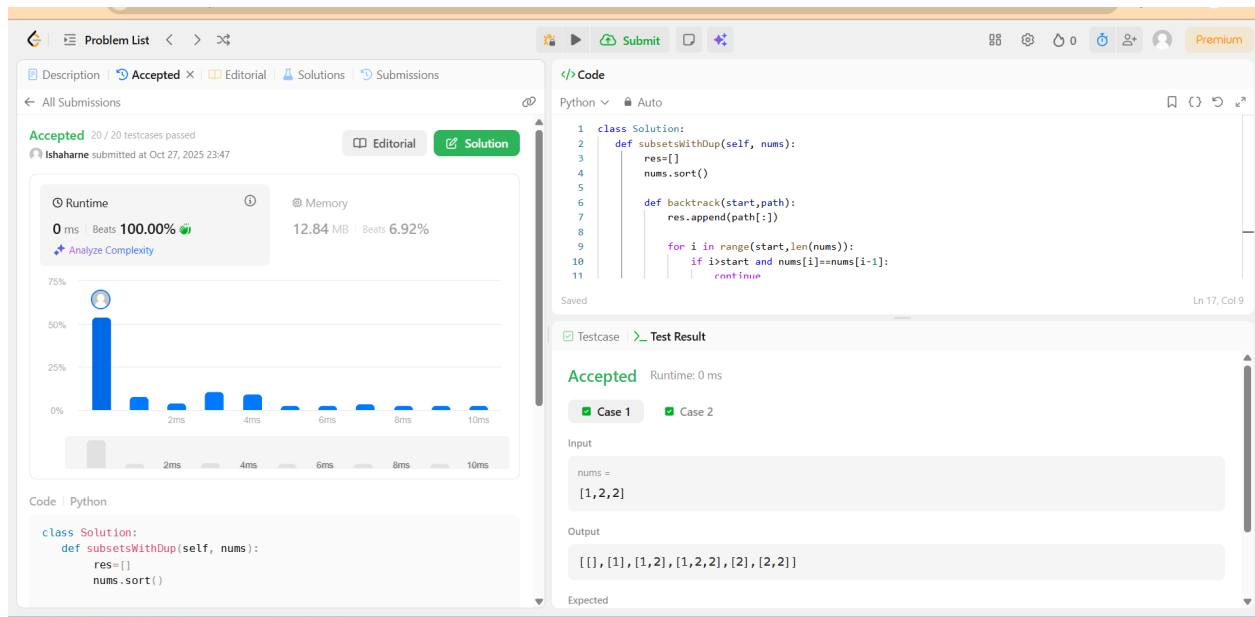
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Class: A4 B2

Roll No:20

## Leetcode Questions

1



2.

**131. Palindrome Partitioning**

Medium Topics Companies

Given a string `s`, partition `s` such that every **substring** of the partition is a **palindrome**. Return *all possible palindrome partitioning* of `s`.

**Example 1:**

Input: `s = "aab"`  
Output: `[["a","a","b"],["aa","b"]]`

**Example 2:**

Input: `s = "a"`  
Output: `[["a"]]`

**Constraints:**

- `1 <= s.length <= 16`
- `s` contains only lowercase English letters.

Seen this question in a real interview before? 1/5

14K 228 90 Online

**Code Editor:**

```
Python
class Solution(object):
    def partition(self, s):
        res = []
        def isPalindrome(sub):
            return sub == sub[::-1]
        def backtrack(start, path):
            if start == len(s):
                res.append(path[:])
                return
            for i in range(start, len(s)):
                if isPalindrome(s[start:i+1]):
                    path.append(s[start:i+1])
                    backtrack(i+1, path)
                    path.pop()
        backtrack(0, [])
        return res
```

**Testcase:** Runtime: 0 ms

**Accepted:** Case 1 Case 2

Input: `s = "aab"`

Output: `[["a","a","b"],["aa","b"]]`

Expected:

3.

**38. Count and Say**

Medium Topics Companies Hint

The **count-and-say** sequence is a sequence of digit strings defined by the recursive formula:

- `countAndSay(1) = "1"`
- `countAndSay(n)` is the run-length encoding of `countAndSay(n - 1)`.

**Run-length encoding (RLE)** is a string compression method that works by replacing consecutive identical characters (repeated 2 or more times) with the concatenation of the character and the number marking the count of the characters (length of the run). For example, to compress the string `"3322251"` we replace `"33"` with `"23"`, replace `"222"` with `"32"`, replace `"5"` with `"15"` and replace `"1"` with `"11"`. Thus the compressed string becomes `"23321511"`.

Given a positive integer `n`, return the  $n^{\text{th}}$  element of the **count-and-say** sequence.

**Example 1:**

Input: `n = 4`  
Output: `"1211"`  
Explanation: `countAndSay(1) = "1"`  
`countAndSay(2) = RLE of "1" = "11"`

5K 345 54 Online

**Code Editor:**

```
Python
class Solution:
    def countAndSay(self, n):
        if n == 1:
            return "1"
        res = "1"
        for _ in range(n - 1):
            temp = ""
            count = 1
            for i in range(1, len(res)):
                if res[i] == res[i - 1]:
                    count += 1
                else:
                    temp += str(count) + res[i - 1]
                    count = 1
            res = temp + res[-1]
        return res
```

**Testcase:** Runtime: 0 ms

**Accepted:** Case 1 Case 2

Input: `n = 1`

Output: `"1"`

Expected:

4.

The screenshot shows the LeetCode interface for problem 47, "Permutations II". The problem description states: "Given a collection of numbers, `nums`, that might contain duplicates, return *all possible unique permutations in any order*." The difficulty is "Medium".

**Example 1:**  
Input: `nums = [1,1,2]`  
Output: `[[1,1,2], [1,2,1], [2,1,1]]`

**Example 2:**  
Input: `nums = [1,2,3]`  
Output: `[[1,2,3], [1,3,2], [2,1,3], [2,3,1], [3,1,2], [3,2,1]]`

**Constraints:**

- `1 <= nums.length <= 8`
- `-10 <= nums[i] <= 10`

The code editor shows a Python solution using a backtracking approach:

```
1 class Solution(object):
2     def permuteUnique(self, nums):
3         nums.sort()
4         result = []
5         picked = [0 for _ in nums]
6
7         def backtrack(current):
8             if len(current) == len(nums):
9                 result.append(current[:])
10                return
11
12            for i in range(len(nums)):
13                if picked[i] == 1:
14                    continue
15                if i > 0 and nums[i] == nums[i - 1] and picked[i - 1] == 0:
16                    continue
17                picked[i] = 1
18                backtrack(current + [nums[i]])
19                picked[i] = 0
20
21        backtrack([])
22        return result
```

The test results show "Accepted" with a runtime of 4 ms. The input for the test case is `nums = [1,1,2]`.

5.

5.

The screenshot shows the LeetCode interface for problem 22, "Generate Parentheses". The problem description states: "Given `n` pairs of parentheses, write a function to *generate all combinations of well-formed parentheses*." The difficulty is "Medium".

**Example 1:**  
Input: `n = 3`  
Output: `["((()))", "(()())", "(())()", "()(())", "()()()"]`

**Example 2:**  
Input: `n = 1`  
Output: `["()"]`

**Constraints:**

- `1 <= n <= 8`

The code editor shows a Python solution using a backtracking approach:

```
1 class Solution(object):
2     def generateParenthesis(self, n):
3         res = []
4
5         def backtrack(openN, closeN, path):
6
7             if openN == closeN == n:
8                 res.append(path)
9                 return
10
11             if openN < n:
12                 backtrack(openN + 1, closeN, path + "(")
13
14             if closeN < openN:
15                 backtrack(openN, closeN + 1, path + ")")
16
17        backtrack(0, 0, "")
18        return res
```

The test results show "Accepted" with a runtime of 0 ms. The input for the test case is `n = 3`.

1.

Log ID: 284152287 / Oct 28, 2025 11:00 PM IST (Asia/Kolkata)

### Problem

This will be the last contest organised by the **Cypher's senior Team**. So they want to make a new team which is capable of framing good questions. Now they know from experience that good team can only be created if all the team members are friends with each other and all of them are from the same section.

That is why they picked Top **N** students from the best section of LPU and interviewed each one of them and asked them about the persons they were friends with.

Now akgarhwal compiled the answer of all the candidate's and made a list such that each item in this contains two students **A** and **B** who are not friends with each other. The list will contain **K** such pairs.

Now your task is to create a team which have the maximum number of members such that all the team members are friends. Since there can be multiple answers for the same problem you have to print the name which comes first Lexicographically.

### INPUT FORMAT:

- The first line of input contains two integer N and K, denoting the number of students and number of lines in the list, respectively.
- Each of next N lines contains a string describing the name of  $i^{\text{th}}$  student of the section.
- Next, K Lines will contain two string A and B, the students who are not friends with each other.

### OUTPUT FORMAT:

- The first line will contain an integer denoting the Numbers of students in the desired team.
- Print the name of the selected member of the team in lexicographical order separated by white space.

### Constraint:

$1 \leq N \leq 16$

$1 \leq |\text{name}| \leq 50$

$0 \leq K \leq (N(N+1))/2$

### Code:

```
#include <stdio.h>
```

```
#include <string.h>
```

```
#define MAXN 16
```

```
int main() {
```

```
    int N, K;    scanf("%d\n", &N, &K);
```

```
    char names[MAXN][51];
```

```
    for (int i = 0; i < N; i++)
        scanf("%s", names[i]);
```

```
int notFriend[MAXN][MAXN] = {0};
```

```
for (int i = 0; i < K; i++) {    char
A[51], B[51];    scanf("%s %s", A,
B);    int idxA = -1, idxB = -1;
for (int j = 0; j < N; j++) {    if
(strcmp(names[j], A) == 0) idxA = j;
if (strcmp(names[j], B) == 0) idxB = j;
    }
    if (idxA != -1 && idxB != -1) {
notFriend[idxA][idxB] = 1;
notFriend[idxB][idxA] = 1;
    }
}
```

```
int maxSize = 0;
```

```
char bestTeam[MAXN][51];
```

```
int totalSubsets = 1 << N;
```

```
for (int mask = 1; mask < totalSubsets; mask++) {
    int valid = 1;
int count = 0;
    char tempTeam[MAXN][51];
    int idxList[MAXN];
```

```

        for (int i = 0; i < N; i++) {            if
(mask & (1 << i)) {
strcpy(tempTeam[count], names[i]);
        idxList[count++] = i;
    }
}

```

```

        for (int i = 0; i < count && valid; i++) {
for (int j = i + 1; j < count && valid; j++) {
if (notFriend[idxList[i]][idxList[j]]) valid = 0;
    }
}

```

```

        if (valid) {            for (int i = 0; i < count - 1;
i++) {            for (int j = i + 1; j < count; j++) {
if (strcmp(tempTeam[i], tempTeam[j]) > 0) {
            char t[51];
strcpy(t, tempTeam[i]);
strcpy(tempTeam[i], tempTeam[j]);
strcpy(tempTeam[j], t);
        }
    }
}

```

```

        if (count > maxSize) {
maxSize = count;            for (int i = 0;
i < count; i++)

```

```

strcpy(bestTeam[i], tempTeam[i]);    }
else if (count == maxSize && count > 0)
{
    int cmp = 0;
    for (int i = 0; i < count; i++) {
        cmp = strcmp(tempTeam[i], bestTeam[i]);
        if (cmp < 0) {
            for
(int j = 0; j < count; j++)
strcpy(bestTeam[j], tempTeam[j]);
            break;
        } else if (cmp > 0)
            break;
    }
}

printf("%d\n", maxSize);
for (int i = 0; i < maxSize; i++)
{
    printf("%s",
bestTeam[i]);    if (i !=
maxSize - 1) printf(" ");
}
printf("\n");

return 0;

```



}

Submission ID: 121790613							
RESULT:  Partially accepted				<a href="#">Refer judge environment</a>			
Score	Time (sec)	Memory (KiB)	Language				
90	0.13246	308	C				
Input	Result	Time (sec)	Memory (KiB)	Score	Your output	Correct output	Diff
Input #1	Accepted	0.011935	2	10			
Input #2	Accepted	0.010257	2	10			
Input #3	Wrong answer	0.018096	2	0			
Input #4	Accepted	0.009664	2	10			
Input #5	Accepted	0.008867	2	10			
Input #6	Accepted	0.020268	2	10			
Input #7	Accepted	0.034634	308	10			
Input #8	Accepted	0.008937	2	10			
Input #9	Accepted	0.009806	2	20			

3

**Code :**

```
#include <stdio.h>
```

```
int countBought(int prices[], int n, long long wealth) {
    int count = 0;    for (int
i = 0; i < n; i++) {        if
(wealth >= prices[i]) {
wealth -= prices[i];
count++;
    }
}
```

```
    return count;
}
```

```
int main() {
    int n, k;
    scanf("%d %d", &n, &k);
```

```
    int prices[n];    long
    long sum = 0;    for (int i
    = 0; i < n; i++) {
    scanf("%d", &prices[i]);
    sum += prices[i];
    }
```

```
    long long low = 0, high = sum, ans = -1;
```

```
    while (low <= high) {        long long
    mid = (low + high) / 2;        int bought =
    countBought(prices, n, mid);
```

```
        if (bought == k) {
    ans = mid;
    low = mid + 1;        }
    else if (bought < k) {
    low = mid + 1;        }
    else {        high =
    mid - 1;
```

```

    }
}

printf("%lld\n", ans >= 0 ? ans : 0);
return 0;
}

```

RESULT:  Partially accepted <a href="#">Refer judge environment</a>							
Score	Time (sec)	Memory (KiB)	Language				
0	0.16874	572	C				
Input	Result	Time (sec)	Memory (KiB)	Score	Your output	Correct output	Diff
Input #1	Accepted	0.009495	2	10			
Input #2	Accepted	0.010036	2	10			
Input #3	Accepted	0.012033	2	10			
Input #4	Accepted	0.010013	2	10			
Input #5	Wrong answer	0.009488	2	0			
Input #6	Wrong answer	0.01755	2	0			
Input #7	Wrong answer	0.017464	2	0			
Input #8	Wrong answer	0.028149	536	0			
Input #9	Accepted	0.028264	572	10			
Input #10	Accepted	0.026251	2	10			

Q.3

**Code:**

```
#include <string.h>
```

```
#define MAX 100000
```

```

int main() {
    int t;
    scanf("%d", &t);
    while (t--) {
        int n;    char
s[MAX];
        scanf("%d", &n);
        scanf("%s", s);
        char
minSuffix[MAX];
        minSuffix[n - 1] =
s[n - 1];    for (int
i = n - 2; i >= 0; i--) {
        if (s[i] < minSuffix[i +
1])
        minSuffix[i] = s[i];
        else
        minSuffix[i] =
minSuffix[i + 1];
        }

        char stack[MAX],
result[MAX];    int top = -1,
resIndex = 0;

        for (int i = 0; i < n; i++) {
            stack[++top] = s[i];

```

```

        while (top >= 0 && (i == n - 1 || stack[top] <= minSuffix[i + 1])) {
result[resIndex++] = stack[top--];
        }
    }

    while (top >= 0)
result[resIndex++] = stack[top--];

    result[resIndex] = '\0';
printf("%s\n", result);
}

return 0;
}

```

**Bob and the minimum string** [🔗](#)  
 520 54% 30 ★★★★★ 6 votes Basics of Greedy Algorithms, Greedy Algorithms, Algorithms [Share](#)

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**Input Format:**

- The first line of input contains an integer  $T$ , denoting the number of test cases.
- For each test case, the first line will contain integer  $N$ , the size of the input string  $S$ , and the second line will contain the string  $S$  itself.

**Output format:**

For each test case, print the lexicographically minimum possible string  $V$  that can be formed.

**Constraints:**

$1 \leq T \leq 5$

$1 \leq N \leq 10^5$

$S[i]$  will be a lowercase english character.

Sample Input	Sample Output
2 4 acda 1 a	aadc a

Time Limit: 1  
 Memory Limit: 256  
 Source Limit:

**Test against custom input** [Compile & Test code](#) [Submit](#)

Submission ID: 121792656

**RESULT: Accepted** [Refer judge environment](#)

Score	Time (sec)	Memory (KiB)	Language
30	0.11227	2	C

Input	Result	Time (sec)	Memory (KiB)	Score	Your output	Correct output	Diff
Input #1	Accepted	0.020124	2	10	<a href="#">🔗</a>	<a href="#">🔗</a>	<a href="#">🔗</a>
Input #2	Accepted	0.0086	2	10	<a href="#">🔗</a>	<a href="#">🔗</a>	<a href="#">🔗</a>
Input #3	Accepted	0.009075	2	10	<a href="#">🔗</a>	<a href="#">🔗</a>	<a href="#">🔗</a>
Input #4	Accepted	0.009996	2	10	<a href="#">🔗</a>	<a href="#">🔗</a>	<a href="#">🔗</a>
Input #5	Accepted	0.008665	2	10	<a href="#">🔗</a>	<a href="#">🔗</a>	<a href="#">🔗</a>
Input #6	Accepted	0.009286	2	10	<a href="#">🔗</a>	<a href="#">🔗</a>	<a href="#">🔗</a>

Q.4.

**Code:**

```
import java.util.Scanner;
```

```

public class DecreasingPaths {

    static int N;    static int[][] mat;

    static long[][] dp;    static final int
MOD = 1000000007;

    static int[] dx = {1, -1, 0, 0};
    static int[] dy = {0, 0, 1, -1};

    static long dfs(int x, int y) {
    if (dp[x][y] != -1) return dp[x][y];
    long count = 1;    for (int dir =
0; dir < 4; dir++) {    int nx =
x + dx[dir];    int ny = y +
dy[dir];

        if (nx >= 0 && nx < N && ny >= 0 && ny < N && mat[nx][ny] <
mat[x][y]) {    count = (count + dfs(nx, ny)) % MOD;

        }

    }

    dp[x][y] = count;
    return count;
    }

    public static void main(String[] args) {

        Scanner sc = new
Scanner(System.in);    N =

```

```
sc.nextInt();    mat = new int[N][N];  
dp = new long[N][N];
```

```
    for (int i = 0; i < N; i++) {  
for (int j = 0; j < N; j++) {  
mat[i][j] = sc.nextInt();  
dp[i][j] = -1;  
    }  
}
```

```
    long total = 0;    for (int i =  
0; i < N; i++) {      for (int j = 0; j  
< N; j++) {          total = (total +  
dfs(i, j)) % MOD;  
    }  
}
```

```
    System.out.println(total);  
    sc.close();  
}  
}
```

All Tracks > Problem

## Decreasing Paths

1752 68% 30 ★★★★★ 58 votes Share

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This is followed by N lines where each line contains N space separated integers.

### Output:

Print the total number of such paths Modulo  $10^9+7$ .

### Constraints:

$1 \leq N \leq 1000$

$1 \leq \text{Numbers in matrix cells} \leq 100$

Sample Input	Sample Output
2 2 2 1 3	8

Time Limit: 2

Memory Limit: 256

Source Limit:

### Explanation

Length 1 Paths : (1) , (1) , (2) , (3)

Length 2 Paths : (2,1) , (3,1) , (3,2)

Length 3 Paths : (3,2,1)

Test against custom input ▼
















Compile & Test code Submit

Submission ID: 121797661

RESULT: Accepted

Refer judge environment

Score	Time (sec)	Memory (KiB)	Language
30	3.24421	100092	Java 17

Input	Result	Time (sec)	Memory (KiB)	Score	Your output	Correct output	Diff
Input #1	Accepted	0.0906	2	10			
Input #2	Accepted	0.106321	2	10			
Input #3	Accepted	0.427253	2	10			
Input #4	Accepted	0.509503	100092	10			
Input #5	Accepted	0.780667	99728	10			

Q.5

Code:

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <math.h>
```

```
#define MOD 1000000007
```

```
int used[20];
```

```
int n; long long
```

```
ans = 0;
```

```
void dfs(int depth, int prev, int count)
```

```
{    if (count > 0) ans = (ans + 1) %
```

```
MOD;
```

```
    for (int i = 1; i <= n; i++)
```

```
{        if (!used[i]) {
```



```

        if (prev != -1 && abs(prev - i) == 1)
            continue;

        used[i] = 1;
        dfs(depth + 1, i, count + 1);
        used[i] = 0;
    }
}

int main() {    scanf("%d", &n);
ans = 0;    for (int i = 0; i <= n;
i++) used[i] = 0;    dfs(0, -1, 0);
    printf("%lld\n", ans % MOD);
    return 0;
}

```

#### Special sets [🔗](#)

👤 8326 📊 86% 📅 30 ⭐⭐⭐⭐⭐ 54 votes 🔄 Share

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#### Problem

An ordered set is a set such that the order in which the objects appear in the set is significant.

For example, (1, 2, 3) and (2, 3, 1) are two different ordered sets of integers.

An ordered set  $S$  of integers is said to be a **special set** if for every element  $X$  of the set, the set does not contain the element  $X + 1$ .

You are given an integer  $N$ . Determine the number of special sets whose largest element is **not greater than**  $N$ . Since, the number of special sets can be very large, print the answer **modulo** 1000000007.

For example, if  $N = 3$ , then there are 5 special sets that are (1), (2), (3), (1, 3), (3, 1).

#### Input format

A single integer  $N$

#### Output format

A single integer representing the number of special sets that satisfy the provided conditions.

#### Constraints

$1 \leq N \leq 2000$

Sample Input	Sample Output
3	5

[Test against custom input](#) ▼

[Compile & Test code](#)

[Submit code](#)

Submission ID: 121793825

RESULT: 🟡 Partially accepted

[Refer judge environment](#)

Score	Time (sec)	Memory (KiB)	Language
0	8.86267	308	C

Input	Result	Time (sec)	Memory (KiB)	Score	Your output	Correct output	Diff
Input #1	Accepted	0.008847	2	2	<a href="#">📄</a>	<a href="#">📄</a>	<a href="#">📄</a>
Input #2	Accepted	0.009296	2	2	<a href="#">📄</a>	<a href="#">📄</a>	<a href="#">📄</a>
Input #3	Wrong answer	0.009351	2	0	<a href="#">📄</a>	<a href="#">📄</a>	<a href="#">📄</a>
Input #4	Time limit exceeded	2.009523	308	0	<a href="#">📄</a>	<a href="#">📄</a>	<a href="#">📄</a>
Input #5	Runtime error	0.166407	308	0	<a href="#">📄</a>	<a href="#">📄</a>	<a href="#">📄</a>
Input #6	Time limit exceeded	2.009105	308	0	<a href="#">📄</a>	<a href="#">📄</a>	<a href="#">📄</a>
Input #7	Time limit exceeded	2.0015	308	0	<a href="#">📄</a>	<a href="#">📄</a>	<a href="#">📄</a>
Input #8	Time limit exceeded	2.011901	308	0	<a href="#">📄</a>	<a href="#">📄</a>	<a href="#">📄</a>

6.

Number of divisors

1251 69% 30 93 votes Backtracking, Basic Programming, Number theory, Recursion

Details Submissions Discussion Similar Problems Editorial

Print the sum of these divisors.

Note:  $k$  is a prime number.

**Input format**

- The first line contains an integer  $T$  representing the number of test cases that will follow.
- Each test case consists of one line containing two integers  $n$  and  $k$ .

**Output format**

The output must contain the answer for each test case on a different line.

Each answer consists of a single integer.

**Constraints**

$T \leq 300000$   
 $1 \leq n \leq 1000000000$   
 $2 \leq k \leq 1000000000$

Sample Input	Sample Output
4	41
10 3	36
10 2	43
10 5	404870951289332

Time Limit: 1  
Memory Limit: 64  
Source Limit:

**Explanation**

In the first test case,  $f(x)$  from 1 to 10 is [1, 2, 1, 4, 5, 2, 7, 8, 1, 10], sum of which is 41.

In the second test case,  $f(x)$  from 1 to 10 is [1, 1, 3, 1, 5, 3, 7, 1, 9, 5].

```

1 import sys
2 input = sys.stdin.readline
3
4 T = int(input())
5 for _ in range(T):
6     n, k = map(int, input().split())
7
8     if k == 1:
9         print(n * (n + 1) // 2)
10        continue
11
12    total = 0
13    while n > 0:
14        q = n // k
15        r = n - q * k
16        total += (r + 1) * (n - r // 2)
17        n //= k
18
19    print(total)
20

```

7.

Problem List

Submit 00:00:00

Description Editorial Similar Problems Submissions Discussion

### N-Queens

87% Success 18241 Attempts 20 Points 1s Time Limit 256MB Memory 1024 KB Max Code

Given a chess board having  $N \times N$  cells, you need to place  $N$  queens on the board in such a way that no queen attacks any other queen.

**Input:**

The only line of input consists of a single integer denoting  $N$ .

**Output:**

If it is possible to place all the  $N$  queens in such a way that no queen attacks another queen, then print  $N$  lines having  $N$  integers. The integer in  $i^{\text{th}}$  line and  $j^{\text{th}}$  column will denote the cell  $(i, j)$  of the board and should be 1 if a queen is placed at  $(i, j)$  otherwise 0. If there are more than way of placing queens print any of them. If it is not possible to place all  $N$  queens in the desired way, then print "Not possible" (without quotes).

**Constraints:**

$1 \leq N \leq 10$ .

Examples

Java 8 Auto

```

1 import java.util.*;
2
3 public class Main {
4     static int N;
5     static int[][] board;
6
7     public static void main(String[] args) {
8         Scanner sc = new Scanner(System.in);
9         N = sc.nextInt();
10        board = new int[N][N];
11
12        if (solveNQueens(0)) {
13            printBoard();
14        } else {
15            System.out.println("Not possible");
16        }
17    }
18
19    // Try to place queens row by row
20    static boolean solveNQueens(int row) {
21        if (row == N) {

```

Results



9.

Problem List

Submit

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Description

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### Make Palindrome

55% Success 5815 Attempts 20 Points 1s Time Limit 256MB Memory 1024 KB Max Code

There is a string that consists of lowercase english alphabets and we have to make the string a palindrome

For this, we have 2 types of operations

1. Re-arrange the string however you want (this operation is free)
2. Add a new character to the end of the string (this operation will cost 1Re)

Your task is to calculate the minimum amount of money to make the string a palindrome

**Input Format:**

The first line contains one integer  $T$  the number of test cases

The first line of every test case consists of  $N$ , the length of the string

The second line of every test case contains string  $S$

**Output Format:**

For every test case output one integer, the minimum amount of money required to make the string a palindrome

**Constraints:**

Java 8

Auto

1

import java.util.\*;

2

3

public class Main {

4

public static void main(String[] args) {

5

Scanner sc = new Scanner(System.in);

6

int t = sc.nextInt(); // number of test cases

7

8

while (t-- > 0) {

9

int n = sc.nextInt();

10

String s = sc.next();

11

12

int cost = minCostToMakePalindrome(s);

13

System.out.println(cost);

14

}

15

}

Results

Log ID: 284117681 / 27/10/2025.18:36:50

Accepted

Refer judge environment

Time

Memory

Language

0.050s

83192KiB

Java 8

10.

All Tracks > Problem

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### Problem

Given an array of integers where each element represents the max number of steps that can be made forward from that element. Write a function to return the minimum number of jumps to reach the end of the array (starting from the first element). If an element is 0, they cannot move through that element. If the end isn't reachable, return -1.

Examples:

Input: arr[] = {1, 3, 5, 8, 9, 2, 6, 7, 6, 8, 9}

Output: 3 (1->3->9->9)

Explanation: Jump from 1st element to 2nd element as there is only 1 step, now there are three options 5, 8 or 9. If 8 or 9 is chosen then the end node 9 can be reached. So 3 jumps are made.

Input: arr[] = {1, 1, 1, 1, 1, 1, 1, 1, 1, 1}

Enter your code or Upload your code as file.

Save

Java 8 (openjdk 1.8.0\_241)

1

import java.io.\*;

2

import java.util.\*;

3

4

public class TestClass {

5

public static void main(String[] args) throws IOException {

6

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

7

PrintWriter wr = new PrintWriter(System.out);

8

int N = Integer.parseInt(br.readLine().trim());

9

String[] arr\_P = br.readLine().split(" ");

10

int[] P = new int[N];

11

for(int i\_P = 0; i\_P < arr\_P.length; i\_P++)

12

{

13

P[i\_P] = Integer.parseInt(arr\_P[i\_P]);

14

}

15

16

long out\_ = alien\_attack(N, P);

17

System.out.println(out\_);

18

19

wr.close();

20

br.close();

21

}

22

static long alien\_attack(int N, int[] P){