

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ, ਕਪੂਰਥਲਾ I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR, KAPURTHALA Office of Corporate Relations & Alumni

Ref. No. IKGPTU/CRA/

Dated Dec/13/2021

Directors/Principals All the University Campuses & Affiliated Colleges I K Gujral Punjab Technical

Sub: Infosys Off- campus Recruitment Drive.

Sir/Madam

I K Gujral Punjab Technical University invite students of its campuses and affiliated colleges to participate in **Infosys off-campus recruitment drive** as per the below mentioned details:-

Designation	:	Specialist Programmer and Digital Specialist Engineer	
Eligible Batch	:	2019, 2020, 2021 and 2022	
Course/Branch	:	B.Tech./ M.Tech.(CSE,ECE,EE,EEE & IT), M.Sc (Maths, Computing & IT) and MCA	
Academic criteria	:	Shared in the attached document	
Package	:	INR 8.00 LPA for Specialist Programmer	
		INR 6.25 LPA per annum for Digital Specialist Engineer	
Selection Process	:	The selection process for these roles will be conducted online in two steps: Infosys online test and virtual interview.	
		'Infosys Online Test Samples' are attached.	
		Please click the link for preparatory guidance video.	
Last date for registration	:	December 24, 2021	
Registration Link	:	https://surveys.infosysapps.com/r/a/Infosys_DSESPDEC	

"Propelling Punjab to a Prosperous Knowledge Society"

I.K. Gujral Punjab Technical University

Jalandhar-Kapurthala Highway, Kapurthala-144 603 **Ph** : 01822-282506 **Email :** placements.ptu@gmail.com **Website :** www.ptu.ac.in



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You are requested to please direct the Training & Placement Officer of your Colleges and Institutions to circulate the information to all the concerned students.

For any queries you may call Dr. Mrigender Singh Bedi, Assistant Director (CR&A), IKGPTU @ +91- 9478098076.

With profound regards,

Deputy Director

(Corporate Relations & Alumni)

Cc :

Registrar : For his kind information.

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Infosys[®]

INFOSYS CAMPUS RECRUITMENT PROGRAM

For the role of Systems Engineer

Eligibility criteria

Engineers (B.E./BTech/M.E./MTech) from all disciplines as well as MCA/MSc (Computer Science/Electronics/Mathematics/Physics/Statistics) are eligible to apply subject to their meeting the following academic criteria.

Class X	Class XII	Diploma (if applicable)	B.E./BTech	M.E./MTech
60% or equivalent	60% or equivalent	65%	65%	Not applicable
60% or equivalent	60% or equivalent	65%	6 (on 10)	Not applicable
60% or equivalent	60% or equivalent	65%	65%	65%
60% or equivalent	60% or equivalent	65%	6 (on 10)	65%
60% or equivalent	60% or equivalent	65%	65%	6 (on 10)

- All percentages/CGPA should be simple average for all subjects/semesters/years, including electives, optional subjects, additional subjects, practical subjects, and languages.
- In case the candidate has done both Class XII and Diploma, the best of the two is taken into consideration.
- No active backlogs are allowed.
- Candidate should be willing to relocate to any location as required by Infosys.
- Candidate should be willing to work in different technologies as required by Infosys.



Samples of Infosys Online Test

Sample Test 1

 While playing an RPG game, you were assigned to complete one of the hardest quests in this game. There are n monsters you'll need to defeat in this quest. Each monster i is described with two integer numbers - power, and bonus,. To defeat this monster, you'll need at least power, experience points. If you try fighting this monster without having enough experience points, you lose immediately. You will also gain bonus, experience points if you defeat this monster. You can defeat monsters in any order.

The quest turned out to be very hard - you try to defeat the monsters but keep losing repeatedly. Your friend told you that this quest is impossible to complete. Knowing that, you're interested, what is the maximum possible number of monsters you can defeat? (*Question difficulty level: Hardest*)

Input:

The first line contains an integer, n, denoting the number of monsters.

The next line contains an integer, e, denoting your initial experience.

Each line i of the n subsequent lines (where $0 \le i < n$) contains an integer, power_i, which represents power of the corresponding monster.

Each line i of the n subsequent lines (where $0 \le i < n$) contains an integer, bonus_i, which represents bonus for defeating the corresponding monster.

Input	Output	Output description
2	2	Initial experience level is 123 points.
123		
78		Defeat the first monster having power of 78 and bonus of 10.
130		Experience level is now 123+10=133.
10		
0		Defeat the second monster.
3	2	Initial experience level is 100 points.
100		
101		Defeat the second monster having power of 100 and bonus of 1.
100		Experience level is now 100+1=101.
304		
100		Defeat the first monster having power of 101 and bonus of 100.
1		Experience level is now 101+100=201.
524		
		The third monster can't be defeated.

Sample cases:

• Unique Birthday Gift

Your birthday is coming soon and one of your friends, Alex, is thinking about a gift for you. He knows that you really like integer arrays with interesting properties.



He selected two numbers, **N** and **K** and decided to write down on paper all integer arrays of length **K** (in form **a[1]**, **a[2]**, ..., **a[K]**), where every number **a[i]** is in range from **1** to **N**, and, moreover, **a[i+1]** is divisible by **a[i]** (where 1 < i < = K), and give you this paper as a birthday present.

Alex is very patient, so he managed to do this. Now you're wondering, how many different arrays are written down on this paper?

Since the answer can be really large, print it **modulo 10000**.

Input:

The first line contains an integer, n, denoting the maximum possible value in the arrays. The next line contains an integer, k, denoting the length of the arrays.

Input	Output	Output description
2 1	2	The required length is 1, so there are only two possible arrays: [1] and [2].
2 2	3	All possible arrays are [1, 1], [1, 2], [2, 2]. [2, 1] is invalid because 1 is not divisible by 2.
3 2	5	All possible arrays are [1, 1], [1, 2], [1, 3], [2, 2], [3, 3].

Sample cases:

Sample Test 2

• Bitwise subsequence

You have an array **A** of **N** integers $A_1 A_2 ... A_n$. Find the longest increasing subsequence $A_{i1} A_{i2} ... A_k$ (1 <= k <= N) that satisfies the following condition:

For every adjacent pair of numbers of the chosen subsequence $A_{i[x]}$ and $A_{i[x+1]}(1 < x < k)$, the expression($A_{i[x]} \& A_{i[x+1]}) * 2 < (A_{i[x]} | A_{i[x+1]})$ is true

Note: '&' is the bitwise AND operation, ' | ' is the bit-wise OR operation

Input:

The first line contains an integer, N, denoting the number of elements in A. Each line i of the N subsequent lines (where $0 \le i < N$) contains an integer describing Ai.

Input	Output	Output description
5	2	One possible subsequence is:
15		5 12
6		
5		
12		
1		

Sample cases:



6	2	One possible subsequence is:
9		2 15
17		
2		
15		
5		
2		
7	3	One possible subsequence is:
17		2817
16		
12		
2		
8		
17		
17		

• Grid Path

Given a grid. Each cell of the grid contains a single integer value. These values are described by 2D integer array **a** with **N** rows and 2 columns, where **a[i][j]** is the value in the cell located in row **i**, column **j**.

Standing in (i; j), the player can move to any cell of the next row (i+1; j2) under the condition that a[i+1][j2] > a[i][j]. In other words, the value in the next cell of the player's path should be strictly greater than the value in the current cell of the player's path.

The player can't make any moves if he's already in the last row.

If the player starts in any cell of the first row (either (1; 1) or (1; 2)), what is the maximum possible total sum of values in all cells he can visit on his path?

Print the answer **modulo 10^9+7**.

Input:

The first line contains an integer, n, denoting the number of rows in a. The next line contains an integer, 2, denoting the number of columns in a. Each line i of the n subsequent lines (where $0 \le i < n$) contains 2 space separated integers each describing the row a[i].

Input	Output	Output description
2	6	Optimal path is (1;2)->(2;2).
12		The answer is 2+4=6.
34		
2	8	No moves are possible from the first row. So start in (1; 2) and
78		collect just 8.
55		

Sample cases:



1 1 The answer is 1+2+3=6.	
22	
33	