Morgan Stanley Assessments - Test Lo | SHL

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SHL.

19 : 45

Choose the correct option.

A water tank containing 2,000 L water has to travel a distance of 50 Km to deliver water to Adarsh society. Halfway through the journey the water tank starts leaking at a rate of 20 L/min. What is the minimum speed at which the tanker should travel for the rest of the journey to deliver at least 1,000 L of water to the society?

OPTIONS

30 Km/h

35 Km/h

40 Km/h

45 Km/h

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SHL

18 : 27

PASSAGE

Seven friends Ajmal, Bhupender, Candy, Divya, Deepak, Angad, and Farhan are seated in a row for an award ceremony according to their position in the competition. All of them are facing towards the north. Candy and Divya sit next to each other. There are exactly four people between Ajmal and Farhan. Divya sits to the immediate right of Farhan.

Choose

If Ajmal
between

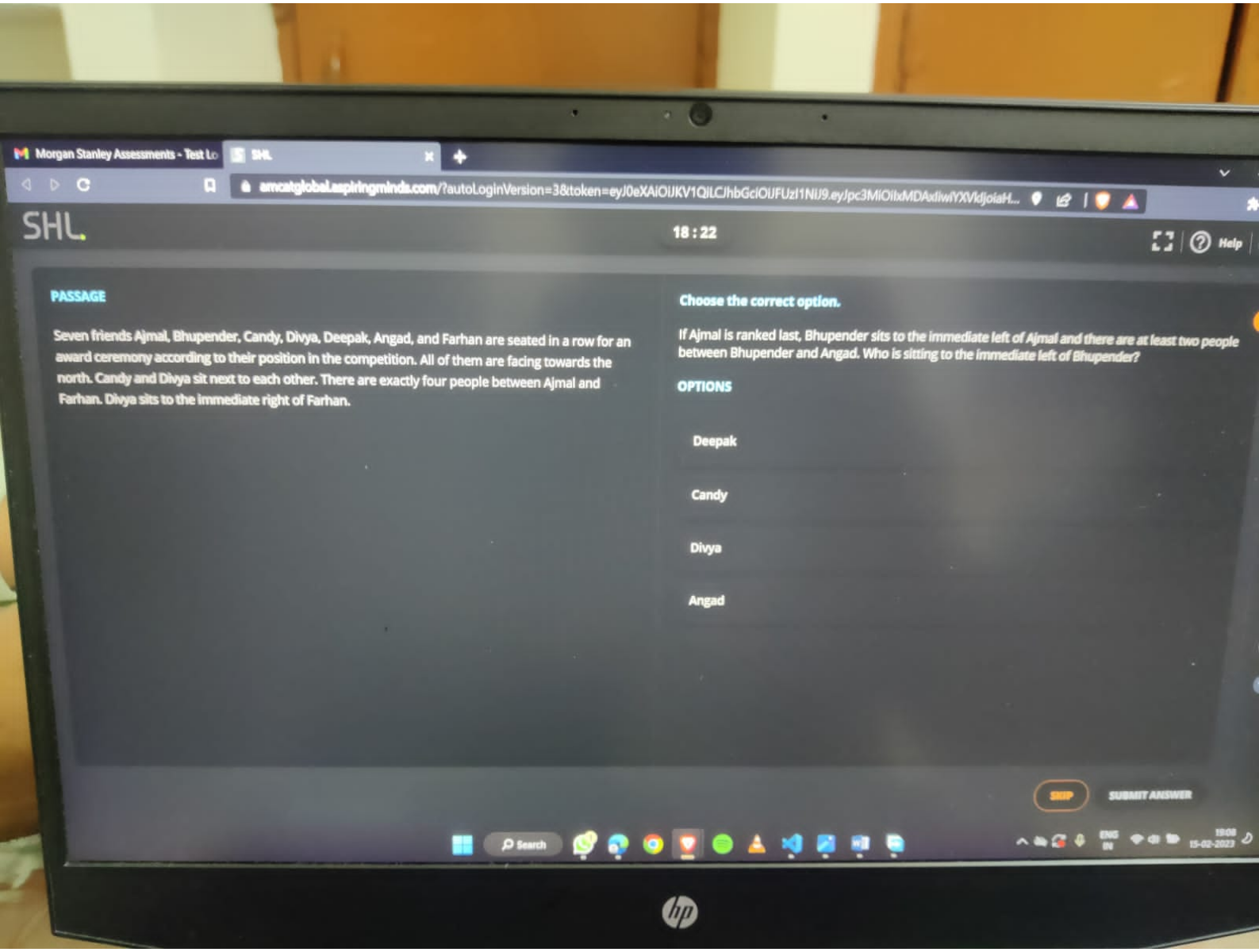
OPTIONS

Deepak

Candy

Divya

Angad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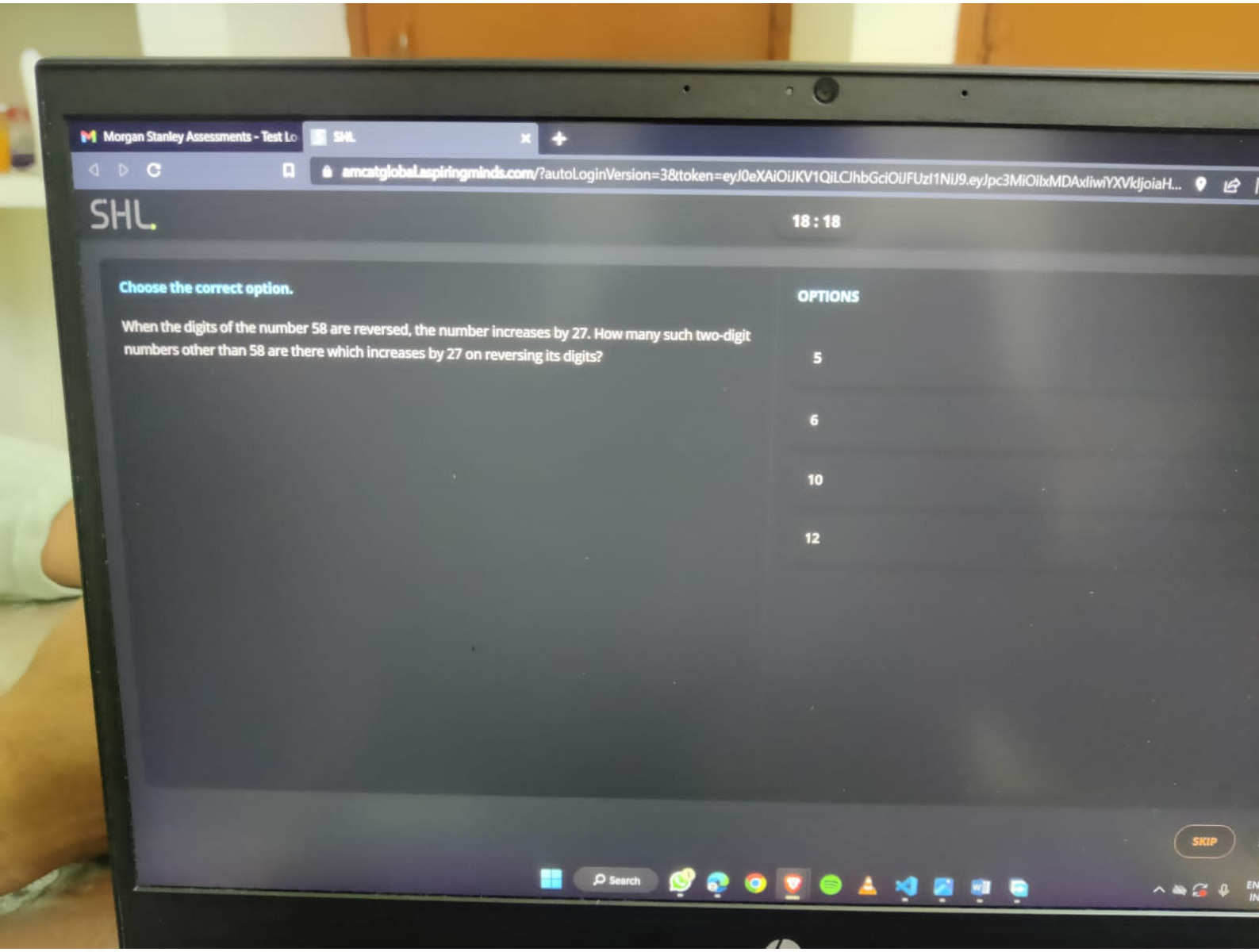
SHL.
18 : 22
Help
PASSAGE
Seven friends Ajmal, Bhupender, Candy, Divya, Deepak, Angad, and Farhan are seated in a row for an award ceremony according to their position in the competition. All of them are facing towards the north. Candy and Divya sit next to each other. There are exactly four people between Ajmal and Farhan. Divya sits to the immediate right of Farhan.
Choose the correct option.
If Ajmal is ranked last, Bhupender sits to the immediate left of Ajmal and there are at least two people between Bhupender and Angad. Who is sitting to the immediate left of Bhupender?
OPTIONS
Deepak
Candy
Divya
Angad
SKIP
SUBMIT ANSWER
Search
ENG
IN
19:08
15-02-2023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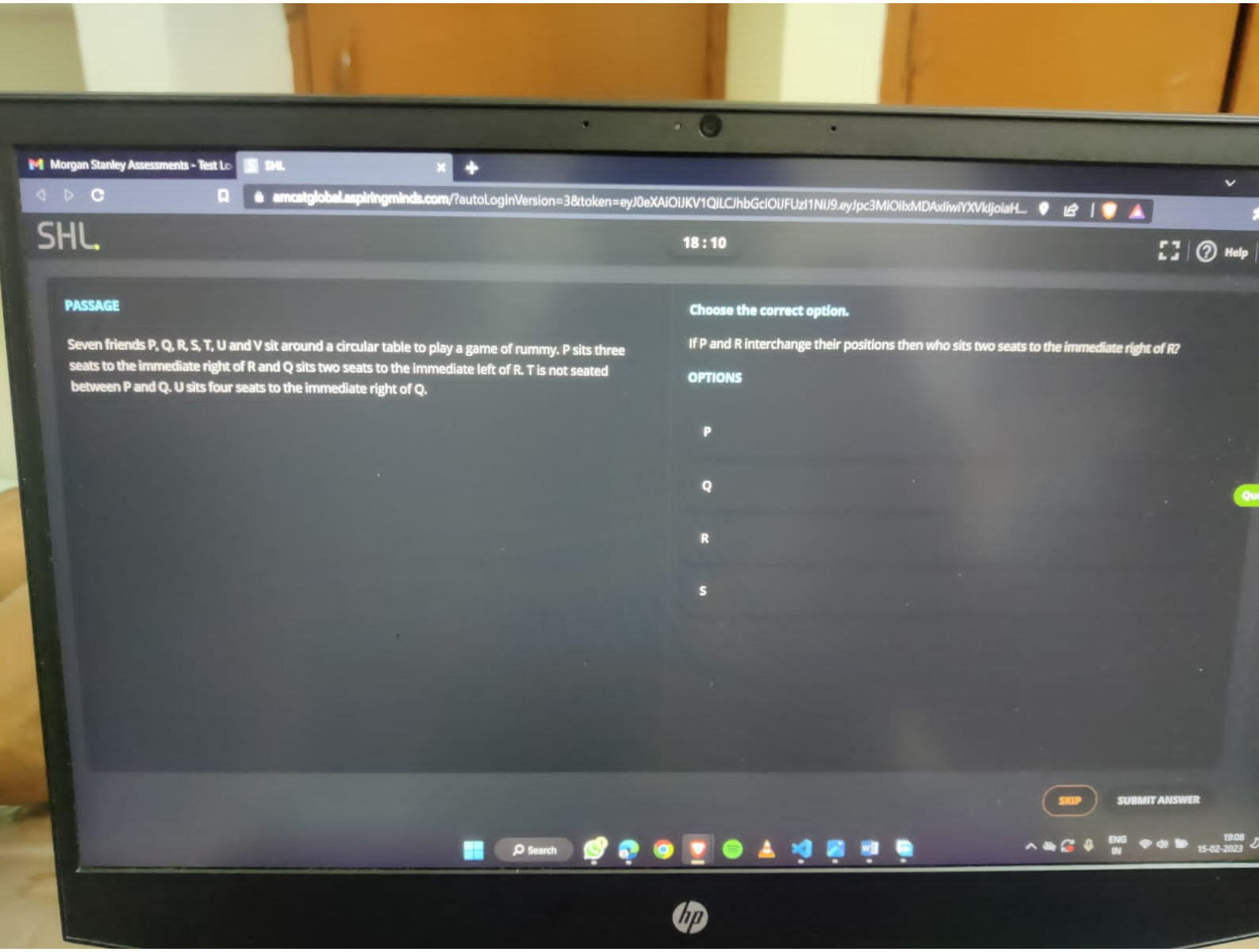
SHL.
18 : 18
Choose the correct option.
When the digits of the number 58 are reversed, the number increases by 27. How many such two-digit numbers other than 58 are there which increases by 27 on reversing its digits?
OPTIONS
5
6
10
12
SKIP
Search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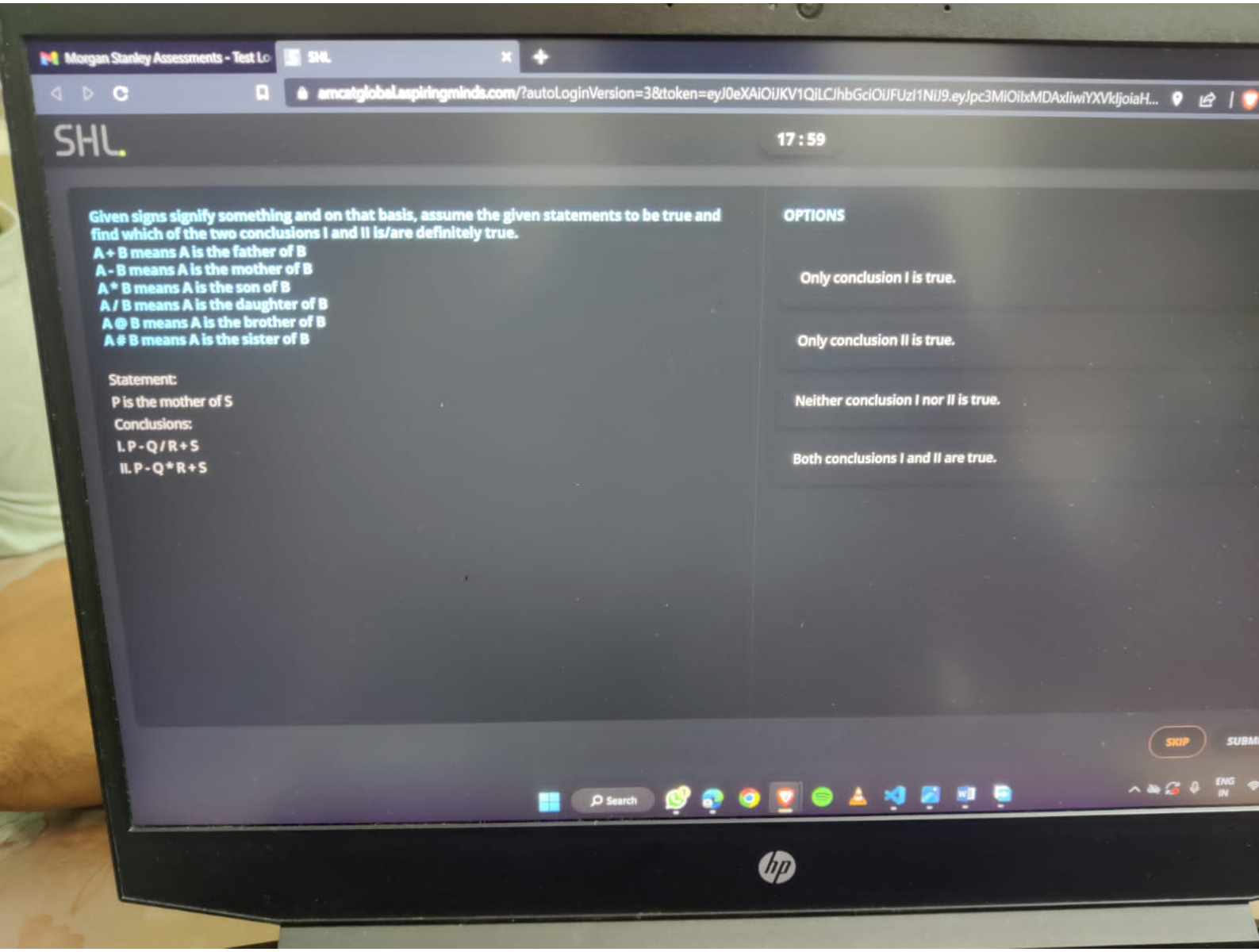
SHL.
18 : 10
Help
PASSAGE
Seven friends P, Q, R, S, T, U and V sit around a circular table to play a game of rummy. P sits three seats to the immediate right of R and Q sits two seats to the immediate left of R. T is not seated between P and Q. U sits four seats to the immediate right of Q.
Choose the correct option.
If P and R interchange their positions then who sits two seats to the immediate right of R?
OPTIONS
P
Q
R
S
SKIP
SUBMIT ANSWER
Search
ENG
IN
19:08
15-02-2023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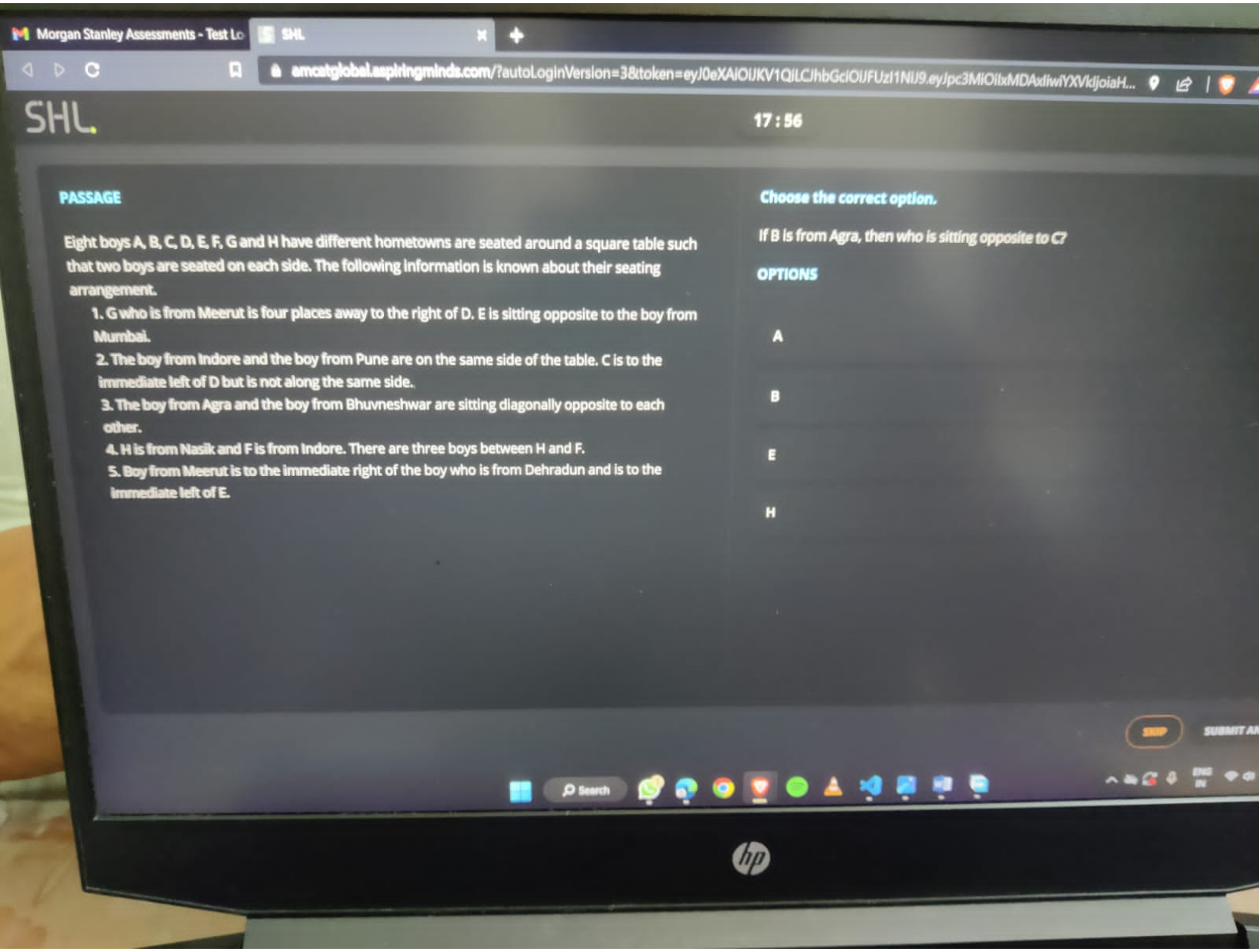
SHL
17 : 59
Given signs signify something and on that basis, assume the given statements to be true and find which of the two conclusions I and II is/are definitely true.
A + B means A is the father of B
A - B means A is the mother of B
A * B means A is the son of B
A / B means A is the daughter of B
A @ B means A is the brother of B
A # B means A is the sister of B
Statement:
P is the mother of S
Conclusions:
I. P - Q / R + S
II. P - Q * R + S
OPTIONS
Only conclusion I is true.
Only conclusion II is true.
Neither conclusion I nor II is true.
Both conclusions I and II are true.
SKIP
Search
ENG
IN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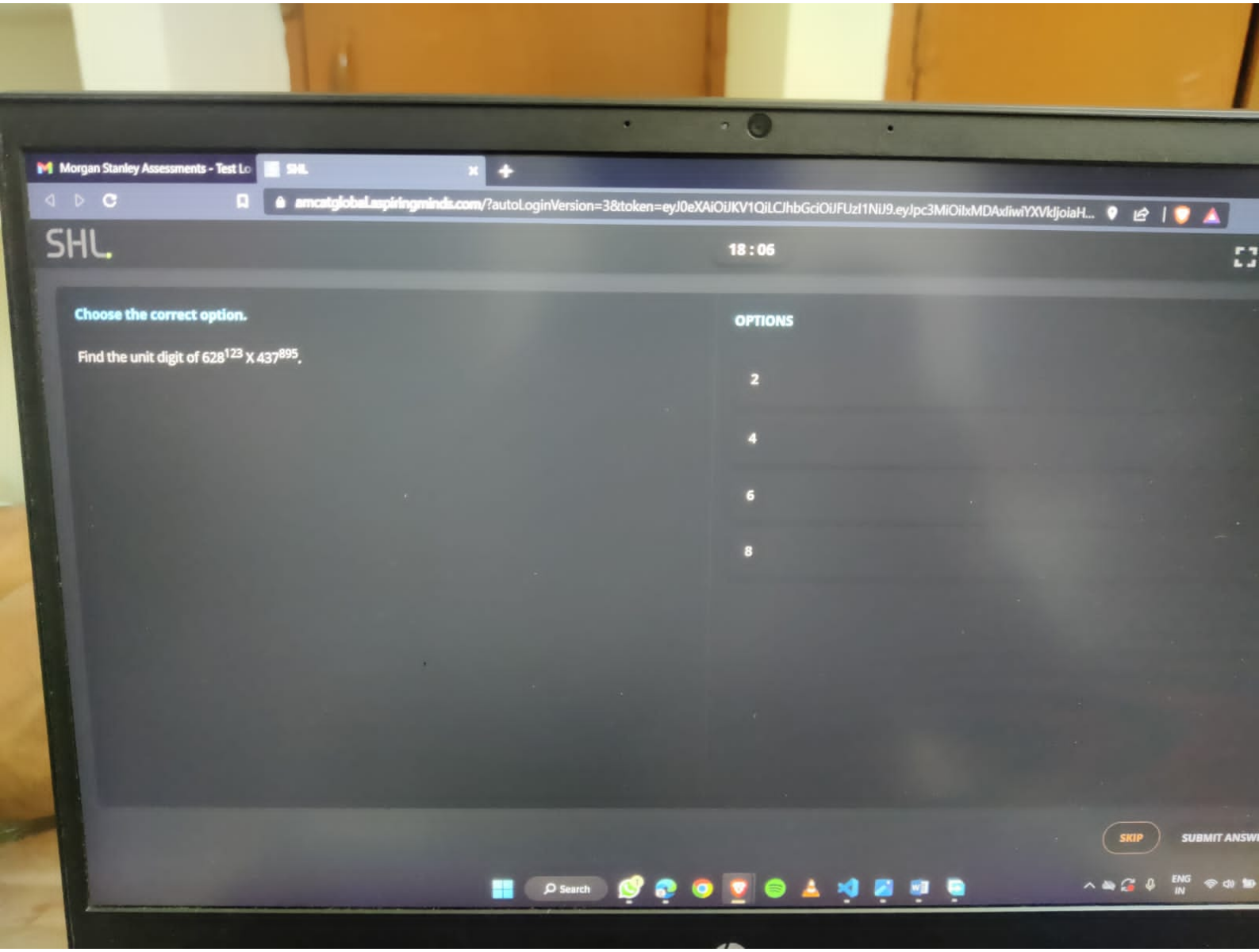
SHL.
17 : 56
PASSAGE
Eight boys A, B, C, D, E, F, G and H have different hometowns are seated around a square table such that two boys are seated on each side. The following information is known about their seating arrangement.
1. G who is from Meerut is four places away to the right of D. E is sitting opposite to the boy from Mumbai.
2. The boy from Indore and the boy from Pune are on the same side of the table. C is to the immediate left of D but is not along the same side.
3. The boy from Agra and the boy from Bhuvneshwar are sitting diagonally opposite to each other.
4. H is from Nasik and F is from Indore. There are three boys between H and F.
5. Boy from Meerut is to the immediate right of the boy who is from Dehradun and is to the immediate left of E.
Choose the correct option.
If B is from Agra, then who is sitting opposite to C?
OPTIONS
A
B
E
H
SKIP
Search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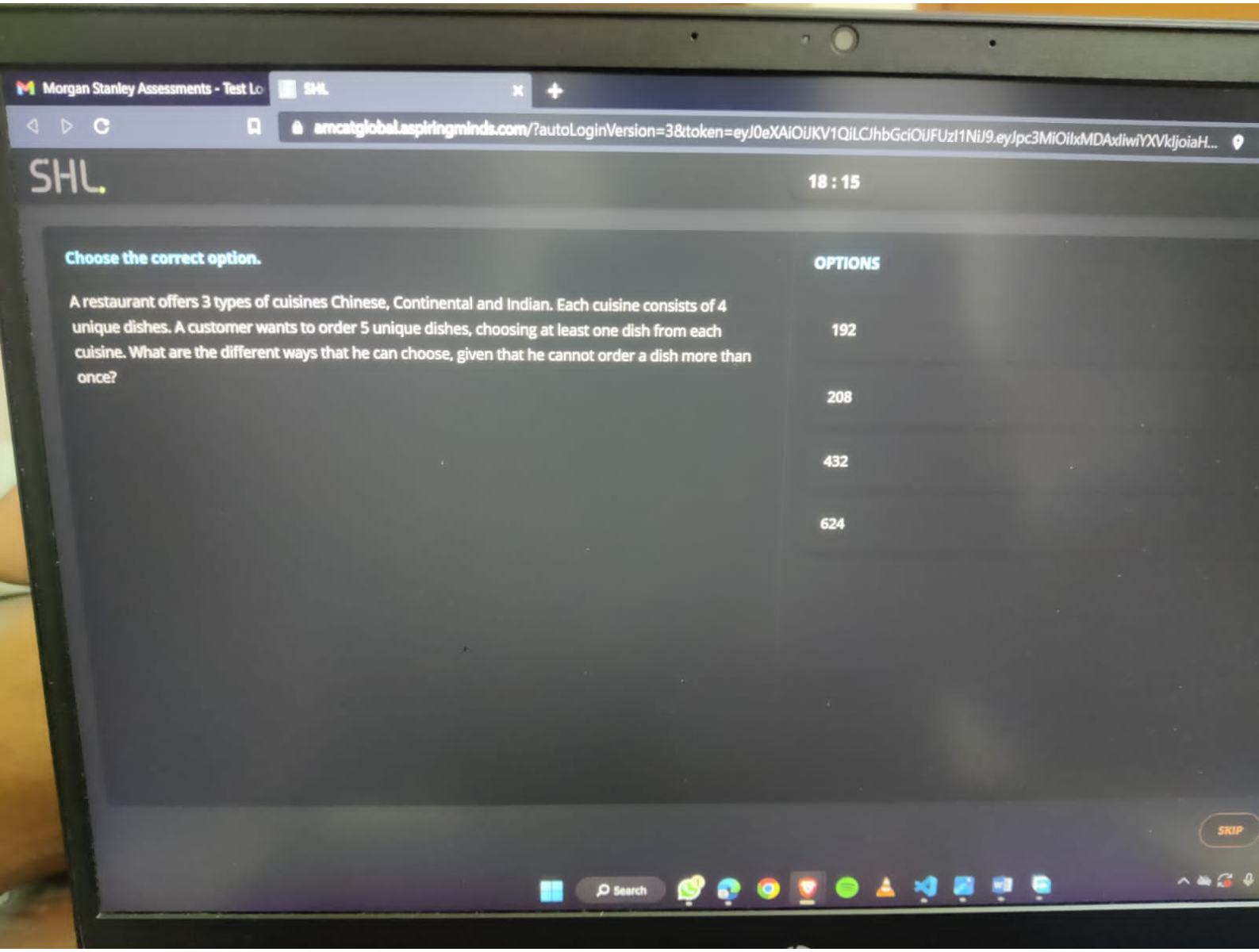
SHL.
18 : 06
Choose the correct option.
Find the unit digit of $628^{123} \times 437^{895}$.
OPTIONS
2
4
6
8
SKIP
SUBMIT ANSW
Search
ENG
IN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SHL.
18 : 15
Choose the correct option.
A restaurant offers 3 types of cuisines Chinese, Continental and Indian. Each cuisine consists of 4 unique dishes. A customer wants to order 5 unique dishes, choosing at least one dish from each cuisine. What are the different ways that he can choose, given that he cannot order a dish more than once?
OPTIONS
192
208
432
624
SKIP
Search

Morgan Stanley Assessments - Test Lo

SHL

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SHL.

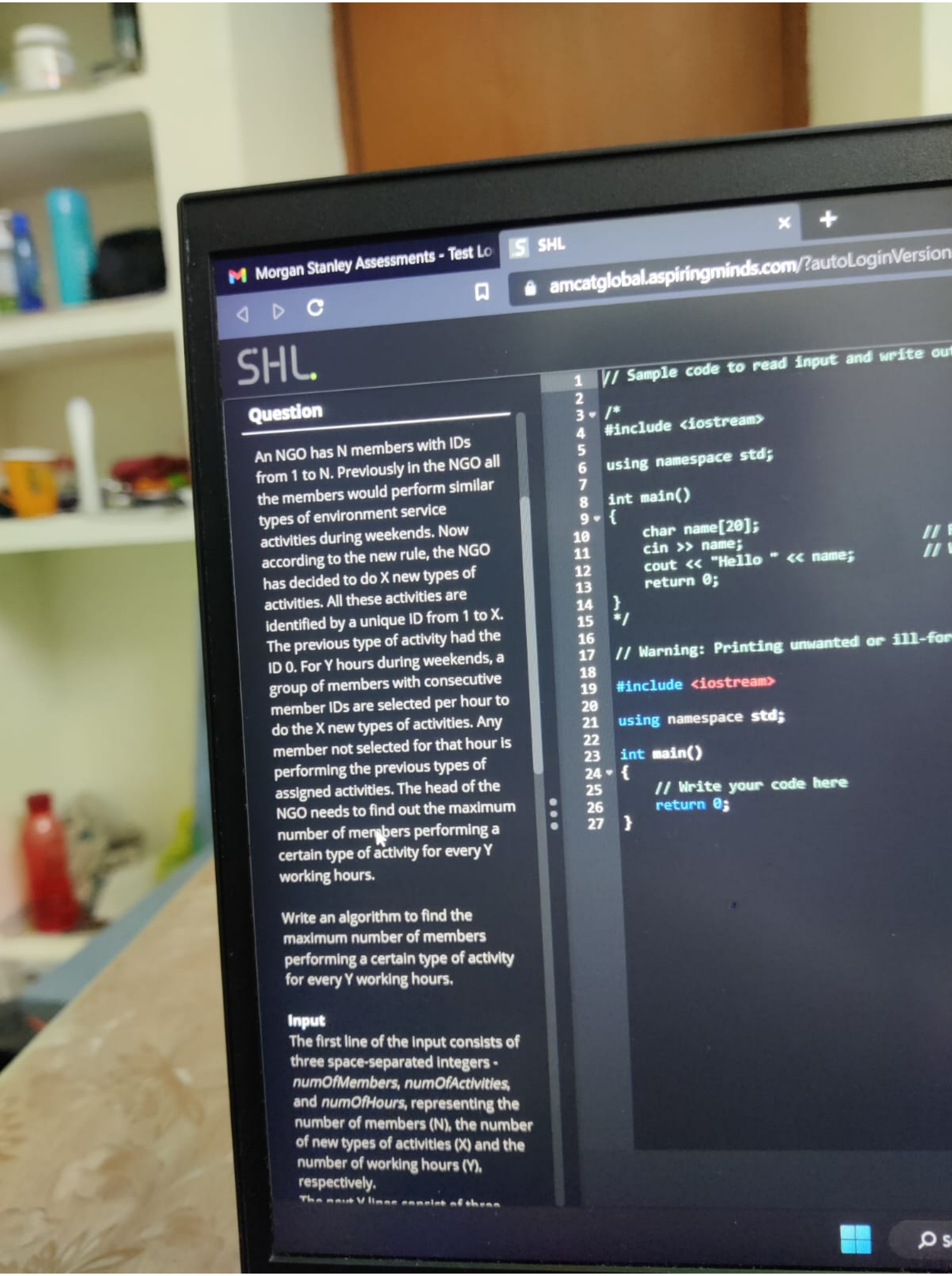
Question

The local administrative body has organized a tree plantation drive for the residents of a village. The administrative officer has made a hierarchy of the N residents with unique resident IDs from 1 to N where the residents help each other in the tree plantation activity. At the end of the year, the government has decided to give the food subsidy to the residents for thier good work on the tree plantation activity. In the year the administration has performed this drive P times and in each drive only one resdient act as a main point of contact for all drive information.

The officer is the head of the hierarchy with ID 0. If resident X is taking help from resident Y, then Y will be in charge of X and is placed above in the hierarchy than X and so on. If a resident has performed well, then the person in charge of that resident will be given a food subsidy. For example, in the given hierarchy X-Y-Z where Y takes help from X and Z takes help from Y, if resident Z has performed well then a food subsidy will be given to the highest person in the hierarchy i.e., X. If X already has a food subsidy, then Y will get the subsidy and in case Y also has a food subsidy then Z will get it. A similar subsidy allocation pattern will be followed for all the residents in the

```
// Sample code to read input and write output:

/*
#include <iostream>

using namespace std;

int main()
{
    char name[20];                  // Read input from STD
    cin >> name;                    // Write output to STD
    cout << "Hello " << name;
    return 0;
}
*/

// Warning: Printing unwanted or ill-formatted data to out

#include <iostream>

using namespace std;

int main()
{
    // Write your code here
    return 0;
}
```

Search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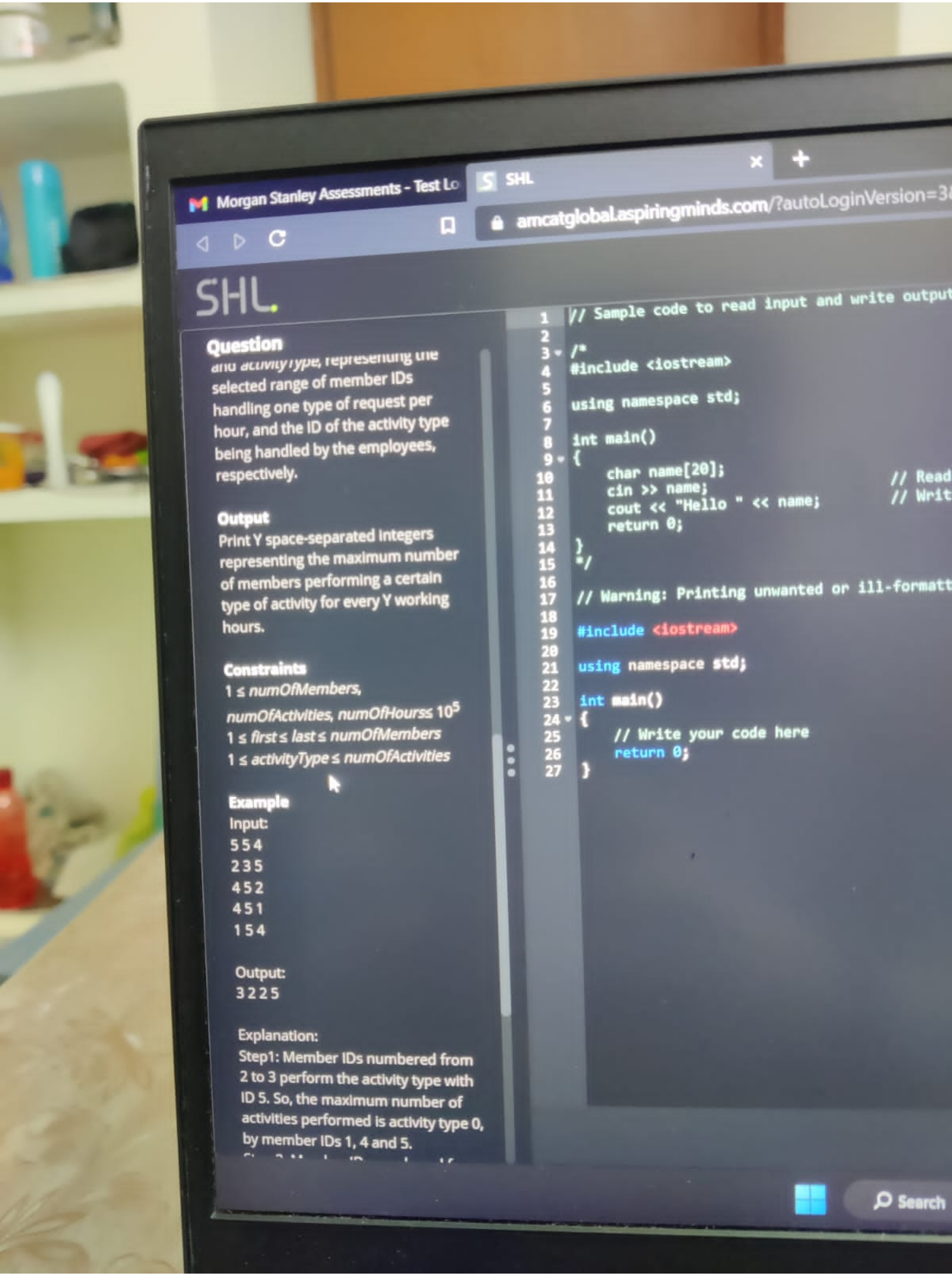
Question
An NGO has N members with IDs from 1 to N. Previously in the NGO all the members would perform similar types of environment service activities during weekends. Now according to the new rule, the NGO has decided to do X new types of activities. All these activities are identified by a unique ID from 1 to X. The previous type of activity had the ID 0. For Y hours during weekends, a group of members with consecutive member IDs are selected per hour to do the X new types of activities. Any member not selected for that hour is performing the previous types of assigned activities. The head of the NGO needs to find out the maximum number of members performing a certain type of activity for every Y working hours.
Write an algorithm to find the maximum number of members performing a certain type of activity for every Y working hours.
Input
The first line of the input consists of three space-separated integers - numOfMembers, numOfActivities, and numOfHours, representing the number of members (N), the number of new types of activities (X) and the number of working hours (Y), respectively.
// Sample code to read input and write ou
/*
#include <iostream>
using namespace std;
int main()
{
char name[20];
cin >> name;
cout << "Hello " << name;
return 0;
}
*/
// Warning: Printing unwanted or ill-for
#include <iostream>
using namespace std;
int main()
{
// Write your code here
return 0;
}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SHL.
Question
and activityType, representing the selected range of member IDs handling one type of request per hour, and the ID of the activity type being handled by the employees, respectively.
Output
Print Y space-separated integers representing the maximum number of members performing a certain type of activity for every Y working hours.
Constraints
1 ≤ numOfMembers, numOfActivities, numOfHours≤ 10^5
1 ≤ first ≤ last ≤ numOfMembers
1 ≤ activityType ≤ numOfActivities
Example
Input:
5 5 4
2 3 5
4 5 2
4 5 1
1 5 4
Output:
3 2 2 5
Explanation:
Step1: Member IDs numbered from 2 to 3 perform the activity type with ID 5. So, the maximum number of activities performed is activity type 0, by member IDs 1, 4 and 5.
// Sample code to read input and write output
/*
#include <iostream>
using namespace std;
int main()
{
char name[20];
cin >> name;
cout << "Hello " << name;
return 0;
}
*/
// Warning: Printing unwanted or ill-formatt
#include <iostream>
using namespace std;
int main()
{
// Write your code here
return 0;
}
Search

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SHL.

Question

ascending order.

Constraints

$0 \leq numResidents \leq 900$

Examples

Input:

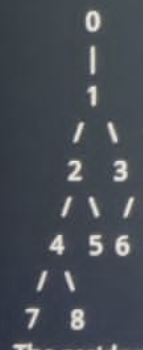
```
8 4
0 1 1 2 2 3 4 4
8 4 6 5
```

Output:

```
4 6 7 8
```

Explanation:

The hierarchy is as follows:

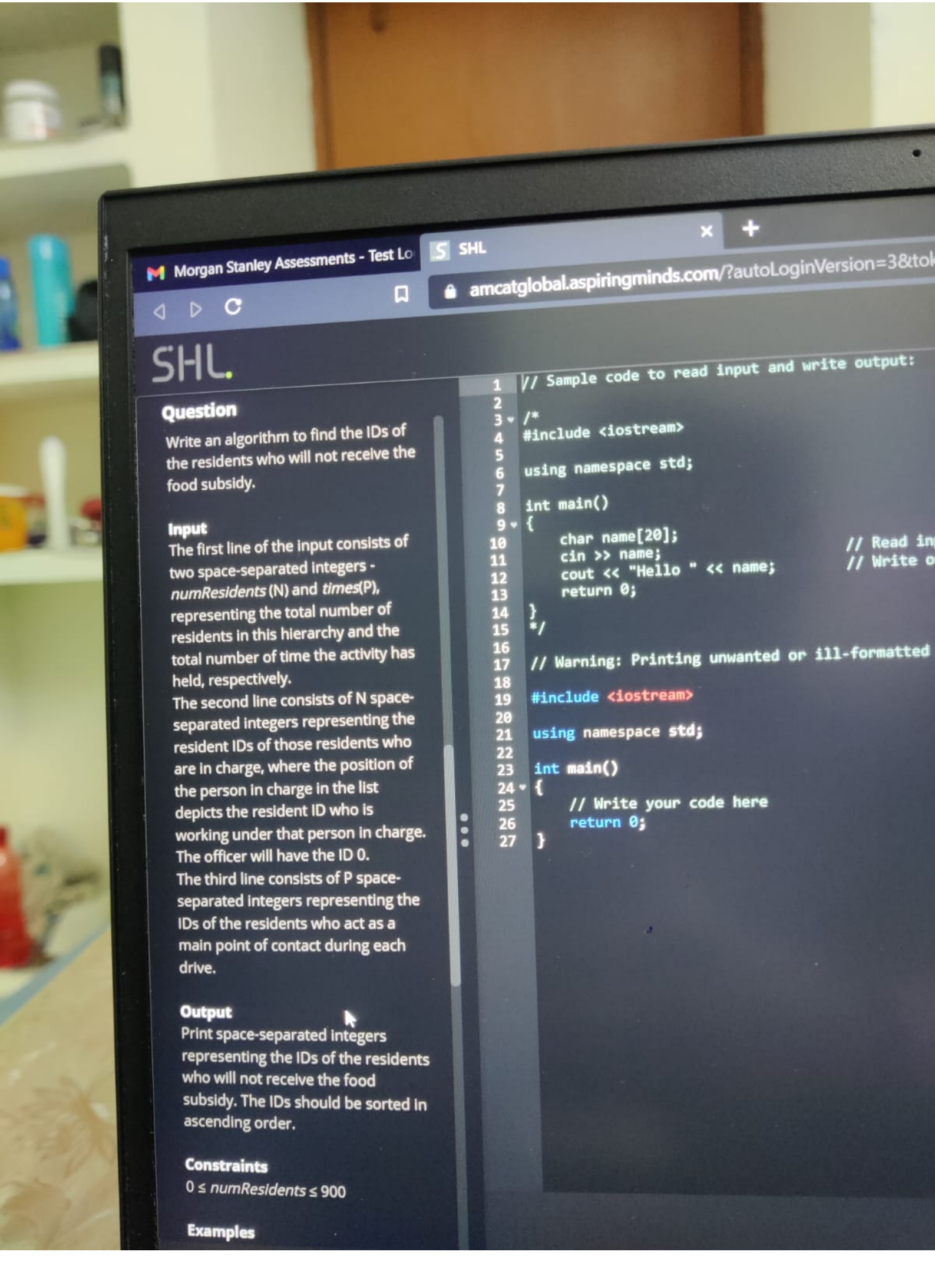


The resident with ID 8 has worked on the activity, therefore the subsidy will be given to the person in charge with resident ID 1.

The resident with ID 4 has worked on the activity, therefore the subsidy will be given to the person in charge with resident ID 2.

The resident with ID 6 has worked on the activity, therefore the subsidy will be given to the person in charge with

```
1  // Sample code to read input and write output:
2
3  /*
4  #include <iostream>
5
6  using namespace std;
7
8  int main()
9  {
10     char name[20];
11     cin >> name;                    // Read input from
12     cout << "Hello " << name;       // Write output to
13     return 0;
14 }
15 */
16
17 // Warning: Printing unwanted or ill-formatted data to
18
19 #include <iostream>
20
21 using namespace std;
22
23 int main()
24 {
25     // Write your code here
26     return 0;
27 }
```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SHL.
Question
Write an algorithm to find the IDs of the residents who will not receive the food subsidy.
Input
The first line of the input consists of two space-separated integers - numResidents (N) and times(P), representing the total number of residents in this hierarchy and the total number of time the activity has held, respectively.
The second line consists of N space-separated integers representing the resident IDs of those residents who are in charge, where the position of the person in charge in the list depicts the resident ID who is working under that person in charge. The officer will have the ID 0.
The third line consists of P space-separated integers representing the IDs of the residents who act as a main point of contact during each drive.
Output
Print space-separated integers representing the IDs of the residents who will not receive the food subsidy. The IDs should be sorted in ascending order.
Constraints
0 ≤ numResidents ≤ 900
Examples
// Sample code to read input and write output:
/*
#include <iostream>
using namespace std;
int main()
{
char name[20];
cin >> name;
cout << "Hello " << name;
return 0;
}
*/
// Warning: Printing unwanted or ill-formatted
#include <iostream>
using namespace std;
int main()
{
// Write your code here
return 0;
}