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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Getting Started With Competitive Programming (course)



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Week 1 Practice Programming Assignment 2

Due on 2023-10-29, 23:59 IST

(https://examform.hptel.ac.in/2023_10/exam_form/dashboard)

If already registered, click to check your payment status

Course outline

How does an NPTEL online course work?

Week 0 ()

Week 1 ()

Welcome and Initial Setup (unit? unit=17&lesson=18)

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Reversort (unit? unit=17&lesson=19)

- Engineering Reversort (unit? unit=17&lesson=20)
- Number Game (unit? unit=17&lesson=21)
- Will It Stop? (unit? unit=17&lesson=22)
- Week 1 Feedback Form: Getting Started with Competitive Programming
- unit=17&lesson=24)
- Quiz: Week 1 : Assignment (assessment?

(unit?

- name=239) Week 1
 - Programming Assignment Q1 (/noc23 cs103/progassignment? name=240)
- Week 1 Programming

Assignment Q2 (/noc23 cs103/progassignment?

name=241)

O Practice: Week 1: Assignment

1(Non Graded)

(assessment?

name=242) Week 1

Practice Programming Assignment 1 (/noc23 cs103/progassignifient? name=243)

At a party, there are n cups of gulab jamun arranged in a circle. A fly is sitting in one of the cups at the moment.

After minute number k, the fly jumps over k - 1 cups (clockwise) and lands and the next one. For example, after the first minute the fly ends up at the neighboring cup, and after that at the third cup from the start.

You should answer: will the fly visit all the cups or not?

We assume that fly is jumping forever.

Input. The only line contains single integer: $1 \le n \le 1000$ — number of cups.

Output. Output "YES" if all the cups will be visited and "NO" otherwise.

Examples.

input

output

3

```
input
1
output
YES
```

```
Your last recorded submission was on 2023-07-28, 17:20 IST
```

```
1 using namespace std;
2 #include <iostream>
  #include <set>
  int main()
       set<int> mods;
       int place=0;
int time=1;
8
```

int nextPlace; int mod; 12 int n; 13 cin>>n;

Select the Language for this assignment. C++



```
do
Week 1
                           15
16
                                      {
 Practice
                                           nextPlace = place + time;
                                           mod=nextPlace%n;
if(mod==0)
                            17
 Programming
                            18
 Assignment 2
                            19
                                                break;
                                           mods.insert(mod);
place=nextPlace;
time=time+1;
 (/noc23_cs103/progassigmment?
                            21
 name=244)
                           22
23
                                     }while(1);
 Week 2 ()
```

Download Videos ()

Transcripts ()

You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program , your assignment will not be graded and you will not see your score after the deadline.

Save as <u>D</u> raft <u>C</u> ompile & Run	<u>S</u> ubmit	<u>R</u> eset
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Private Test cases used for Evaluation	Status
Test Case 1	Passed
Test Case 2	Passed
Test Case 3	Passed
Test Case 4	Passed
Test Case 5	Passed
Test Case 6	Passed
Test Case 7	Passed
Test Case 8	Passed

