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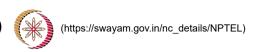swayam (https://swayam.gov.in)
(https://swayam.gov.in/nc_details/NPTEL)

200801199@rajalakshmi.edu.in ⌄

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » **Problem Solving Through Programming In C (course)**

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Course outline

Week 5 : Programming Assignment 3

Due on 2023-08-31, 23:59 IST

Write a C program to check whether the given number(N) can be expressed as Power of Two (2) or not.
For example 8 can be expressed as 2^3.

Your last recorded submission was on 2023-08-30, 20:26 IST

Select the Language for this assignment. C ⌄

```c
1  #include <stdio.h>
2  int main()
3  {
4      int N;
5      scanf("%d",&N); /* The value of N is taken from the test case data */
6
7  /* Complete the code.
8  Use the printf statements as below
9  printf("%d is a number that can be expressed as power of 2.",N);
10 printf("%d cannot be expressed as power of 2.",N);
11 */

12 int temp=N;
13 int flag=0;
14 while(N!=1)
15 {
16   if(N%2!=0)
17   {
18     flag=1;
19     break;
20   }
21   N=N/2;
22 }
23 if(flag==0)
24 {
25  printf("%d is a number that can be expressed as power of 2.",temp);
26 }
27 else
28 {
29   printf("%d cannot be expressed as power of 2.",temp);
30 }
31 return 0;
32 }
```

33

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 Draft	Compile & Run	Submit	Reset

Sample Test Cases

	Input	Output
Test Case 1	8	8 is a number that can be expressed as power of 2.
Test Case 2	66	66 cannot be expressed as power of 2.