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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

How does an NPTEL online course work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 5 : Programming Assignment 1

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

Write a C program to check whether a given number (N) is a perfect number or not.

[Perfect Number - A perfect number is a positive integer number which is equals to the sum of its proper positive divisors. For example 6 is a perfect number because its proper divisors are 1, 2, 3 and it's sum is equals to 6.]

Your last recorded submission was on 2023-08-30, 20:10 IST

Select the Language for this assignment. C ⌄

```c
1  #include <stdio.h>
2  int main()
3  {
4      int N;
5      scanf("%d",&N); /* An integer number taken as input from test cases *
6
7  /*Complete the program by writing the rest of the code in the space provi
8  Copy and paste the printf statement given below wherever required to avoi
9  printf("\n%d is a perfect number.",N);
10 printf("\n%d is not a perfect number.",N);
11 */
12 int sum=0;
13 for(int i=1;i<=N/2;i++)
14 {
15   if(N%i==0)
16   {
17     sum=sum+i;
18
19   }
20 }
21 if(sum==N)
22 {
23   printf("%d is a perfect number.",N);
24 }
25 else
26 {
27   printf("%d is not a perfect number.",N);
28 }
29 return 0;
30 }
```

Week 6 ()

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Problem Solving Session - July 2023 ()

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 **D**raft	**C**ompile & Run	**S**ubmit	**R**eset

Sample Test Cases

	Input	Output
Test Case 1	6	6 is a perfect number.
Test Case 2	87	87 is not a perfect number.