

My Maya

Owl Code



Apt Logic

Logout



J-Path

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Points: 40

Submissions: 3739



Description

Amicable Numbers

Program Description

Write A Program to check whether a given number is Amicable Number or not and display Amicable Number or Not Amicable Number.

Amicable numbers: Two different numbers so related that the sum of the proper divisors of each is equal to the other number.

The first ten amicable pairs are: (220, 284), (1184, 1210).

Input Format

There will be two integers N and M in two different lines.

Output Format

Display that whether they are Amicable or Not Amicable.

Constraints

$1 \leq N, M \leq 10^5$

Explanation

Input 1:

220 : $1+2+4+5+10+11+20+22+44+55+110 = 284$

284: $1+2+4+72+142 = 220$

Input-1

220

284

Output-1

Amicable

Input-2

236

Light

C - GCC 11.1.0 ▾



Timer

0:08 sec



```
1 #include<stdio.h>
2 int main()
3 {
4     int m,n,M,N,i;
5     scanf("%d %d",&n,&m);
6     for(i=1;i<=n/2;i++)
7     {
8         if(n%i==0)
9             N+=i;
10    }
11    for(i=1;i<=m/2;i++)
12    {
13        if(m%i==0)
14            M+=i;
15    }
16    if(N==m&&M==n) printf("Amicable");
17    else printf("Not Amicable");
18    return 0;
19 }
```

 Run Code

Compiler Response

#	Testcase	Input	Expected Output	Your Output	Memory	CPU time	Result
1	220 284	220 284	Amicable	Amicable	1408 KB	3.442 ms	Pass
2	236 345	236 345	Not Amicable	Not Amicable	1408 KB	2.487 ms	Pass

All hidden testcases passed



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Light



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