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

$1<=N,M<=10^5$

Explaination

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

```c
#include<stdio.h>
int main()
{
    int m,n,M,N,i;
    scanf("%d %d",&n,&m);
    for(i=1;i<=n/2;i++)
    {
        if(n%i==0)
        N+=i;
    }
    for(i=1;i<=m/2;i++)
    {
        if(m%i==0)
        M+=i;
    }
    if(N==m&&M==n) printf("Amicable");
    else printf("Not Amicable");
    return 0;
}
```

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