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// Author: Shyaan Khan Period: 4 Date: 10/17

// Description: write a program that lists divisors from number1 to numberentered.

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**import** java.util.Scanner;

**public** **class** PerfectLab {

**public** **static** **void** main(String[]args){

Scanner scan = **new** Scanner(System.***in***);

**int** numentered = scan.nextInt();

**for**(**int** a =1; a<= numentered; a++)

{

**int** rowNum = a;

**int** sum = 0;

System.***out***.print(a+": ");

**for**(**int** c = a; c>=1; c--)

{

**int** d = a/c;

**if**(a%c==0)

{

**if** (c==1)

{

System.***out***.print(d+" ");

}

**else**

{

System.***out***.print(d+",");

sum+=d;

}

}

}

**if**(sum == rowNum)

System.***out***.print(rowNum+" is a perfect number");

System.***out***.println();

}

}

}

Output:

8

1: 1

2: 1,2

3: 1,3

4: 1,2,4

5: 1,5

6: 1,2,3,6 6 is a perfect number

7: 1,7

8: 1,2,4,8