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// Author: Shyaan Khan   Period: 4           Date: 10/17
// Description: write a program that lists divisors from number1 to numberentered.
//-----
```

```
import java.util.Scanner;
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```
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
```