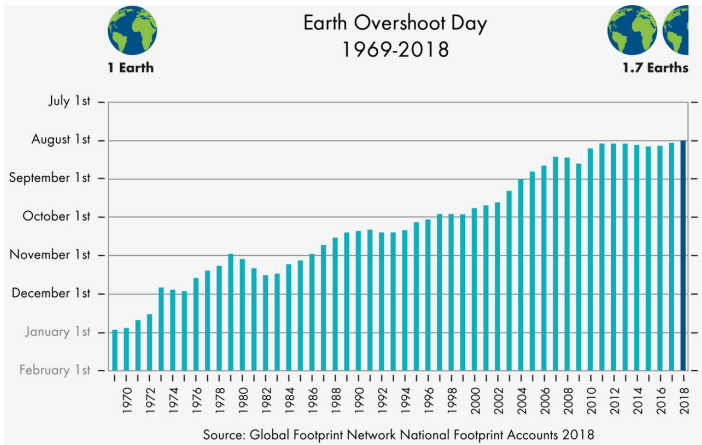


1 Orla’s Overshoot Observations (CPU:1sec - RAM:256MB)

Orla just started her summer internship in a team maintaining the memorial of the Big Earth’s Disaster of 2077. As a duty of remembrance, she thinks similar catastrophes could be avoided by simply providing better education to the people of EIRE (Environmentally-Insensitive Reckless Empire). For this, she would like to provide an equivalent to Earth’s Overshoot Day measurements to all the planets of the Empire.

*The Big Earth’s Disaster of 2077 is considered as the end of the History of planet Earth. On that year, Earth Overshoot Day (the calculated illustrative calendar date on which humanity’s resource consumption for the year exceeds Earth’s capacity to regenerate those resources that year) happened on January 1st, hence illustrating the horrendous management capacities of humankind at that time. The figure below shows a graph of the first years for which the overshoot day was calculated.*



– Encyclopedia Galactica

**Input** The input consists in two lines. The first line contains two space-separated integers,  $5 \leq N \leq 10000$  and  $20 \leq K \leq 1000000000000$ , respectively representing the number of days in a year (different planets have different years) and the total amount of bioresources produced yearly. The second line contains the amount of bioresources consumed each day.

**Output** The output of your program should be a single integer providing the index (starting at 1) of the day on which the resource of the planet is exceeded.

Sample Input 1

5 100  
20 22 20 19 20

Sample Output 1

5

Sample Input 2

10 1200  
83 245 375 96 122 119 145 197 99 162

Sample Output 2

8