# QUESTION:

Today you decided to go to the gym. You currently have energy equal to E units. There are N exercises in the gym. Each of these exercises drains Ai amount of energy from your body. You feel tired if your energy reaches 0 or below. Calculate the minimum number of exercises you have to perform such that you become tired. Every unique exercise can only be performed at most 2 times as others also have to use the machines. If performing all the exercises does not make you feel tired, return -1.

**Parameters:**

E :: INTEGER The first line contains an integer, E, denoting the Energy. E :: 1 -> 10^5

N :: INTEGER The next line contains an integer, N, denoting the number of exercises. N :: 1 -> 10^5

A :: INTEGER ARRAY Each line i of the N subsequent lines (where 0 ≤ i < N) contains an integer describing the amount of energy drained by i-th exercise. A[i] :: 1 -> 10^5

**Test Cases**

Case#: 1

Input: 6 2 1 2 Output: 4

E = 6 Do 1st exercise 2 times Do 2nd exercise 2 times Hence, total exercises done 4.

Case#: 2

Input: 10 2 1 2 Output: -1

E = 10 By doing both the exercises 2 times, you won't feel tired.

Case#: 3

Input: 2 3 1 5 2 Output: 1

E = 2 Use 3rd exercise 1 time. Hence, total exercise done 1.

# ANSWER:

import java.util.\*;

public class gym

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int en,ex,s=0,sum=0,c=0,a=0;

en=sc.nextInt();

ex=sc.nextInt();

int ed[]=new int[ex];

for(int i=0;i<ex;i++)

{

ed[i]=sc.nextInt();

}

for(int i=0;i<ex;i++)

{

sum=sum+ed[i];

}

if(sum<en)

{

for(int i=0;i<ex;i++)

{

s=s+(ed[i]\*2);

if(s<=en)

{

c=c+2;

}

else if(s>en)

{

break;

}

else

{

continue;

}

}

if((en-c)>(en-s))

{

c=-1;

}

}

else

{

for(int i=0;i<ex;i++)

{

if(en==ed[i])

{

c=1;

}

else

{

a=a+(ed[i]\*2);

if(a==en)

{

c++;

}

else

{

continue;

}

}

}

}

System.out.println(c);

}

}