

## **FOUR IN A ROW**

Given a positive integer, tell whether it is equal to the sum of four consecutive integers.

An input file, which must always be called **four.txt**, may contain any number of integers, one per line. The sample output shows the exact form that your program's output must also produce.

### **Sample input data (four.txt)**

2  
5  
41  
82

### **Sample Output:**

2 is the sum of four consecutive integers -1+0+1+2  
5 is not the sum of four consecutive integers  
41 is not the sum of four consecutive integers  
82 is the sum of four consecutive integers 19+20+21+22

### **Judge Data Set 1 – Input**

1  
6  
55  
27000  
27001  
27002  
27003

### **Judge Data Set 1 – Output (10 marks each except for 2 and 2<sup>nd</sup> last 25 marks each)**

1 is not the sum of four consecutive integers  
6 is the sum of four consecutive integers  $0+1+2+3$   
55 is not the sum of four consecutive integers  
27000 is not the sum of four consecutive integers  
27001 is not the sum of four consecutive integers  
27002 is the sum of four consecutive integers  $6749+6750+6751+6752$   
27003 is not the sum of four consecutive integers

### **Judge Data Set 2 – Input**

-112  
600  
551  
7000  
7001  
7002  
7003

### **Judge Data Set 2 – Output (10 marks each except for 2<sup>nd</sup> last output 40 marks)**

-112 is not the sum of four consecutive integers  
600 is not the sum of four consecutive integers  
551 is not the sum of four consecutive integers  
7000 is not the sum of four consecutive integers  
7001 is not the sum of four consecutive integers  
7002 is the sum of four consecutive integers  $1749+1750+1751+1752$   
7003 is not the sum of four consecutive integers