

INPUT

7

3 4 6 4 5 7 5

+1 +2 -2 +1 +2 -2
length 3 length 3

OUTPUT

3

We know how to
read multiple lines
loop + input

4

1 2 3 5

+1 +1 +2

3

4

1 2 3 4

+1 +1 +1

1

5

1 2 3 4 5 6 7
+1 +3 +1 +3

2

↓ (cont)

Work 6 Mar 2019

How can we calculate
the differences?
loop over length
↑
1st number
in line

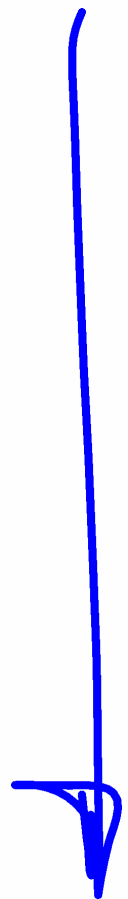
Do we need pattern?
Or can we calculate the
answer w/o storing pattern?

Imaging we have the differences

e.g. $+1 \quad +2 \quad -2 \quad +1 \quad +2 \quad -2$

How can we calculate the length?

Bonus
Assignment (Due Tue
26 March
2019)



CCC 2011 Junior

Which alien?

After "simulating" it on paper, we see we can:

- Concentrate on each feature separately

- Eliminate cases do not fit that particular feature

Requirements

Aliens:

T:

V:

G:

Ant

≥ 3

≤ 6

≤ 2

Eyes

≤ 1

≥ 2

≤ 3

Input
A & E

Before we get input $\Rightarrow$

$\Rightarrow$ all possible

1 1 1
↑ ↑ ↑
T V G

Simulation again!!
Input

3

2

Possibilities

1 1 1

Check Ant check eyes

1 1 0

1 1 0

Could be
T or V

2

4

1 1 1

0 1 1

0 1 0

Homework: Write the pseudo-code

V!