Missing number in an array

0	1	2	3	4	5
1	2	4	7	6	5

Standard mathematical formula

Output = 3

$m = 6$

$n = m+1$

$$\text{Sum of natural numbers} = \frac{n(n+1)}{2}$$

$$\frac{(m+1)(n+2)}{2} \qquad = \frac{7 * \not{8} 4}{\not{2}} = 28$$

$$\frac{\text{sum of elements}}{\text{in an array}} = 25$$

Missing Element $= 28 - 25$

$$= 3$$

$$\underset{\downarrow}{\underline{int}}$$

$$\begin{cases} \text{sum of} \\ \text{natural} \\ \text{numbers} \end{cases} = \frac{(n+1) * (n+2)}{2}$$

$n \longrightarrow \underline{\text{very high}}$

$\longrightarrow$ Overflow