

CCC Junior 2011

Thu 7 MAR 2019

$$A = -6t^4 + ht^3 + 2t^2 + t$$

$$h = 30 \quad m = 10$$

t (hours)	A (meters)
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1	27
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2	154
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3	345
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4	420
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10	
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$$A = t(-6t^3 + ht^2 + 2t + 1)$$

$$\begin{array}{r} -6000 \quad 3021 \end{array}$$

For $t = m \Rightarrow$ -2979 $A < 0$!

For yre it
has landed

$$h = 70$$

$$M = 10$$

$$A = t(-6t^3 + ht^2 + 2t + 1)$$

t	A
1	57
10	10210

$$-6000 \quad 7021$$

$$+ 1021$$

Not touched down

HOMEWORK / ASSIGNMENT

Write

- 1) A few more simulation cases if not yet convinced you understand the problem
- 2) Summary of how you'll code it
- 3) Logic of program
- 4) Pseudo-code
- 5) Actual code