



Level 2



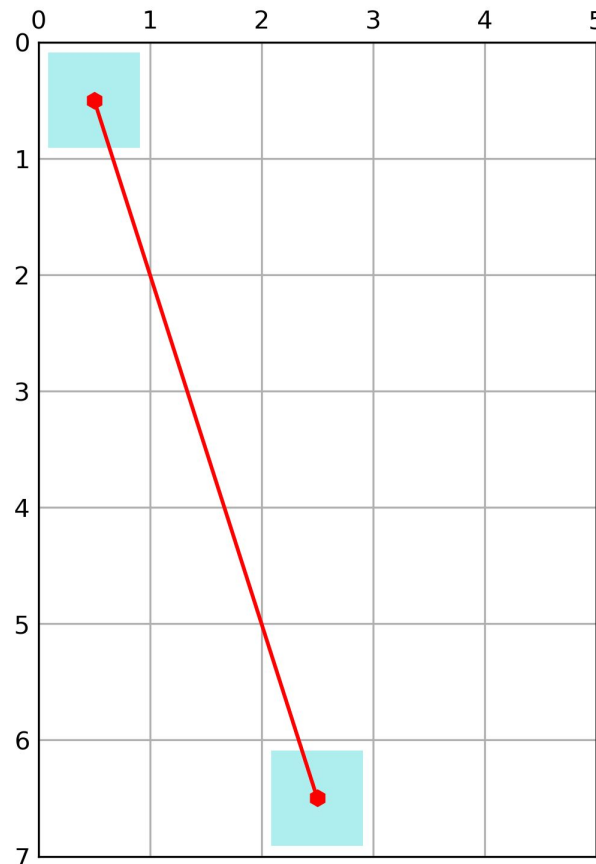
Required point coordinates to achieve a certain distance

Task for Level 2:

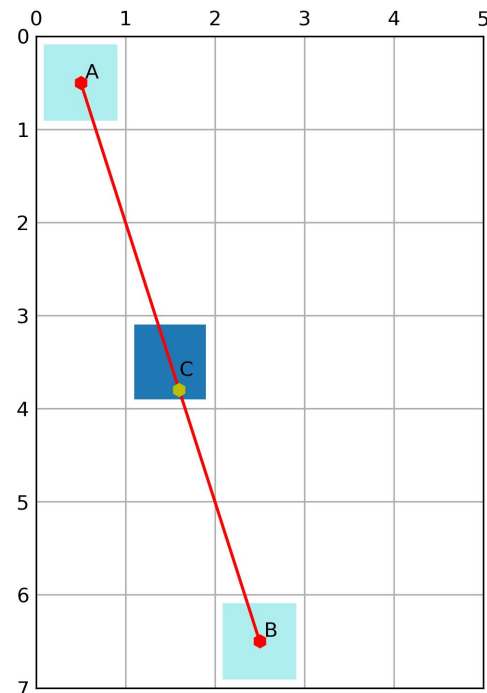
**Find the cell coordinate on a line, such that, the cell is at a certain distance
from the starting point**



- › The world is a 2D grid consisting of square cells
- › The coordinates start at position (0,0).
A cell at position (r,c) spans the square $(r..r+1, c..c+1)$
- › Here r means row, c means the column coordinate.
Rows iterate vertically and columns horizontally.
- › A straight line that connects two cells is considered to connect **the centers of these cells**.



- Let there be 2 cells A and B.
The line AB (from center to center) has a length L
- Given a ratio R , one can compute the coordinates of the point C such that the distance from A to C is $R \cdot L$
- Output the position of the cell that contains C, i.e. the (**rounded down**) coordinates of the point C such that, $AC/AB = R$ where AC, AB is the length of the segments.
- R is a real number in $[0, 1]$ closed interval so for $R = 1$, output B and for $R = 0$, output A





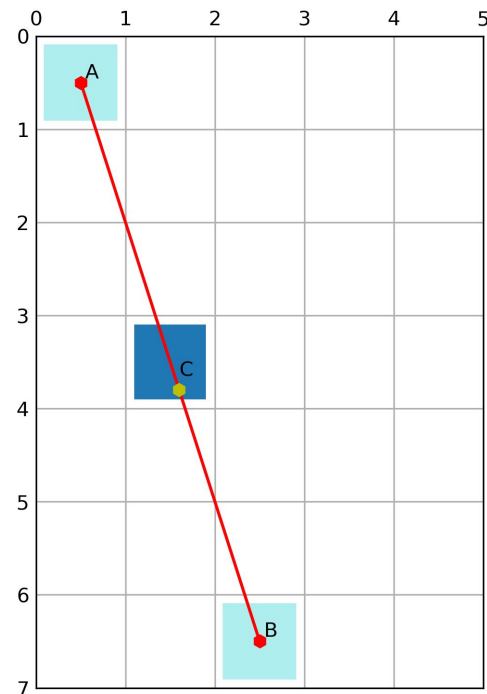
Example

$A = (0,0)$

$B = (6,2)$

$R = 0.55$

C is the yellow dot and the integer coordinates of C are (3,1)



**Input format:**

<no_of_tuples>
<r1 c1 r2 c2 ratio>
<r1 c1 r2 c2 ratio>
.....

Output format:

<r c>
<r c>
.....

Sample input:

1
0 0 6 2 0.55000

Sample output:

3 1

