

Level 4



- **Space is now 2D**
- Your spaceship starts at position 0,0
- Your spaceship must reach the X and Y position of the station exactly
- X and Y paces can change separately from each other
- Generate one sequence for X and one for Y
- Both sequences must start and end with 0
- The sequences may take a different amount of time
- Both sequences must complete within the time limit
- The given time limit requires an **optimal solution**
- There may be multiple correct solutions

→ We will keep it at 2D space for the rest of the contest.

→ There is a visualizer.html in the input folder. You can use it to visualize the movement of your ship.



Input

Name		Description	Example
N		Number of cases	3
Space station and time limit (repeated N times)		The X-position and the Y-position of the space station separated by a comma Followed by the time limit separated by a space	3, -3 16 7, 5 28 -4, -9 31

Output

Name		Description	Example
repeated N times	X-Sequence	A list of integers separated by spaces, each representing a pace in X-direction	0 5 4 5 0 0 -5 -4 -5 0
	Y-Sequence	A list of integers separated by spaces, each representing a pace in Y-direction	0 5 4 3 2 3 4 5 0 0 5 4 3 4 5 0
	<i>Empty lines between paragraphs are recommended but optional</i>		0 -5 -4 -4 -5 0 0 -5 -4 -3 -2 -1 -2 -3 -4 -5 0

Good Luck!



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