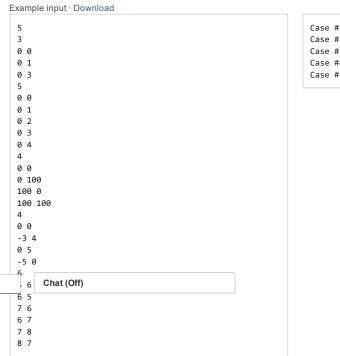
Search for people, places and things

Nirmal Hom

Instructions	Facebook Hacker Cup 2016 Qualification Round	
Scoreboard My score	Boomerang Constellations 10 poin	nts
Friends	The night sky can be modeled as an infinite 2D plane. There are N stars at distinct positions on this plane, the i th of which is at coordinates (X _i ,	i.
Everyone	Y_i).	
Problems	A boomerang constellation is a pair of distinct equal-length line segments which share a single endpoint, such that both endpoints of each	
10: Boomerang Conste	segment coincide with a star's location.	
25: High Security	Two boomerang constellations are distinct if they're not made up of the same unordered pair of line segments. How many distinct boomerang	
25: The Price is Correct	constellations can you spot?	
40: Text Editor	Input	
Resources	Input begins with an integer T , the number of nights on which you look out at the sky. For each night, there is first a line containing the integer N . Then, N lines follow, the ith of which contains the space-separated integers X _i and Y _i .	N.
Past Rounds		
Update Registration	Output	
FAQ	For the ith night, print a line containing "Case #i: " followed by the number of boomerang constellations in the night sky.	
Terms and Conditions	Constraints	
	1 ≤ T ≤ 50	
	$1 \le N \le 2,000$ -10,000 \le X _i , Y _i \le 10,000	
	Fundamentian of Computer	

Explanation of Sample

On the first night, every pair of stars is a unique distance apart, so there are no boomerang constellations. On the second night, there are 4 boomerang constellations. One of them consists of the line segments (0,0)-(0,2) and (0,2)-(0,4).



Example output · Download

Case #1: 0
Case #2: 4
Case #3: 4
Case #4: 3
Case #5: 12



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