HW8
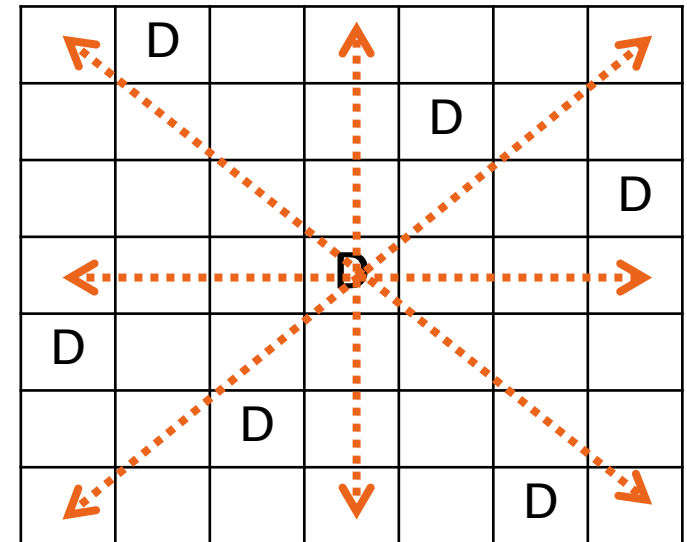
- 7 dwarfs are going to search for Snow White
- Every dwarf wants to be the first one seeing SW. Therefore, they don't want to see other dwarfs in their sights.
- Rules:
  ◦ Dispose 7 dwarfs on a 7 by 7 land such that none of them is able to attack any other on the same row, column, or diagonal.

Requirements

- Write a program which lets users input the initial position of the first dwarf
  ◦ Note that the index starts at (0,0)
- Place the rest 6 dwarfs on the land if possible

- Bonus:
  ◦ Show all 6 fundamental solutions without symmetry operations, i.e., rotations or reflections. (total 40 solutions)

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- Output format:
  - A column sequence showing the column number of each position from row 0 to row 6
  - E.g.) 0, 2, 4, 6, 1, 3, 5

	0	1	2	3	4	5	6
0	D						
1			D				
2					D		
3							D
4		D					
5				D			
6						D	

HW8

▶ Hints:
◦ Enumerate all possible moves
◦ Prune some unnecessary checks

	0	1	2	3	4	5	6
0	D	x	x	x	x	x	x
1	x	x					
2	x		x				
3	x			x			
4	x				x		
5	x					x	
6	x						x

	0	1	2	3	4	5	6
0	D	x	x	x	x	x	x
1	x	x	D	x	x	x	x
2	x	x	x				
3	x		x	x			
4	x		x		x		
5	x		x			x	
6	x		x				x