


Chapter XI

Exercise 08 : The Ten Queens

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The Ten Queens	
Turn-in directory : <i>ex08/</i>	
Files to turn in : <code>ft_ten_queens_puzzle.c</code>	
Allowed functions : <code>write</code>	

- Create a function that displays all possible placements of the ten queens on a chessboard which would contain ten columns and ten lines, without them being able to reach each other in a single move, and returns the number of possibilities.
- Recursivity is required to solve this problem.
- Here's how it should be prototyped :

```
int ft_ten_queens_puzzle(void);
```

- Here's how it'll be displayed :

```
$>./a.out | cat -e
0257948136$
0258693147$
...
4605713829$
4609582731$
...
9742051863$
$>
```

- The sequence goes from left to right. The first digit represents the first Queen's position in the first column (the index starting from 0). The Nth digit represents the Nth Queen's position in the Nth column.
- The return value must be the total number of displayed solutions.