

How to Find an Example

Optimality

Computer Search

- ✓

Honors Quiz: Puzzle: N Queens
5 questions

★
- ✓

Video: N Queens: Brute Force Search
10 min

★
- ✓

Reading: N Queens: Brute Force Solution Code
10 min

★
- ✓

Video: N Queens: Backtracking: Example
7 min

★
- ✓

Video: N Queens: Backtracking: Code
7 min

★
- 📖

Reading: N Queens: Backtracking Solution Code
10 min

★
- 📖

Honors Quiz: Puzzle: 16 Diagonals
3 questions

★
- ✓

Video: 16 Diagonals
3 min

★
- 📖

Reading: 16 Diagonals: Code
10 min

★
- 📖

Practice Quiz: Number of Solutions for the 8 Queens Puzzle
1 question

★
- 📖

Reading: Slides
1 min

★

N Queens: Brute Force Solution Code

[Practice with Lab Sandbox](#)

```
1 import itertools as it
2
3 def is_solution(perm):
4     for (i1, i2) in it.combinations(range(len(perm)), 2):
5         if abs(i1 - i2) == abs(perm[i1] - perm[i2]):
6             return False
7
8     return True
9
10 for perm in it.permutations(range(8)):
11     if is_solution(perm):
12         print(perm)
13         exit()
```

Run

Reset

(0, 4, 7, 5, 2, 6, 1, 3)

✓ Completed Go to next item

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