Introduction to Programming

Dumb Eight Queens Program

The program below will generate all eight position base 8 numbers and test each one.

```python
def duplicates(q):
    if there are duplicates:
        return True
    else:
        return False

def diagonal_threat(q):
    if there is a diagonal threat:
        return True
    return False

count=0
for i0 in range(8):
    for i1 in range(8):
        for i2 in range(8):
            for i3 in range(8):
                for i4 in range(8):
                    for i5 in range(8):
                        for i6 in range(8):
                            for i7 in range(8):
                                q=[i0,i1,i2,i3,i4,i5,i6,i7]
                                if duplicates(q) or diagonal_threat(q):
                                    continue
                                count+=1
                                print('solution ',count,': ',q)
```

```