2007 Q11
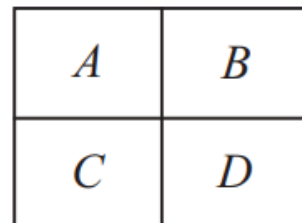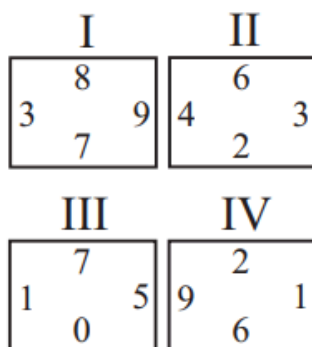
11. Tiles I, II, III and IV are translated so one tile coincides with each of the rectangles A, B, C and D. In the final arrangement, the two numbers on any side common to two adjacent tiles must be the same. Which of the tiles is translated to Rectangle C?

I
```
    8
3       9
    7
```

II
```
    6
4       3
    2
```

III
```
    7
1       5
    0
```

IV
```
    2
9       1
    6
```

```
| A | B |
| C | D |
```

(A) I   (B) II   (C) III   (D) IV
(E) cannot be determined

11. **(D)** Because Tile III has a 0 on the bottom edge and there is no 0 on any other tile, Tile III must be placed on C or D. Because Tile III has a 5 on the right edge and there is no 5 on any other tile, Tile III must be placed on the right, on D. Because Tile III has a 1 on the left edge and only Tile IV has a 1 on the right edge, Tile IV must be placed to the left of Tile III, that is, on C.

II   I
```
    6           8
4   A   3 3   B   9
    2           7
    2           7
9   C   1 1   D   5
    6           0
```
IV   III