First Map: A A A B
  A A B B
  A A B B
  A B B B

Quadtree:

```
   +----+----+----+----+
   | 0  | 1  | 2  | 3  |
   +----+----+----+----+
   |     | b  | a  |     |
   |     | 00  | 01  | 02  | 03  |
   +----+----+----+----+
   | a  | b  | a  | a  | 30  | 31  | 32  | 33  |
   +----+----+----+----+
```

First Map