2.7 The number of microstates is given by $\Omega(4,2) = \binom{2+4-1}{2} = \frac{5!}{2!3!} = 10$. They are:

```
  ●● | |   ●●
  ●● | |   ●●
  ● | ●   ●●
  ● | ●   ●●
  ●● | |   ●●
```