Resizing in a separate-chaining hash table
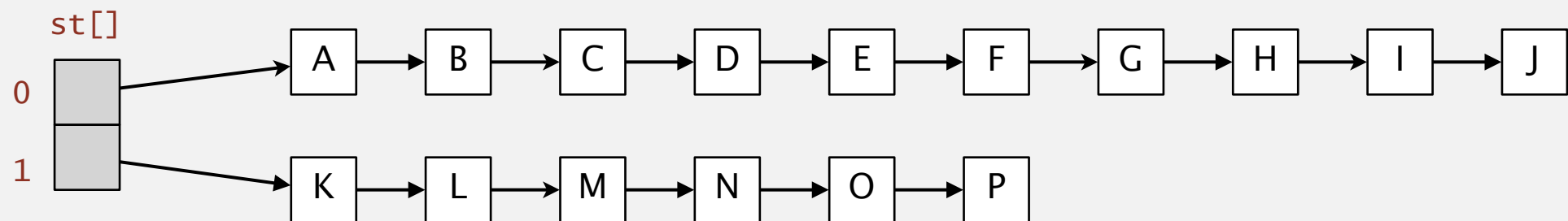
Goal. Average length of list N/M = constant.
- Double size of array M when $N/M \geq 8$.
- Halve size of array M when $N/M \leq 2$.
- Need to rehash all keys when resizing. $\longleftarrow$ `x.hashCode()` does not change but `hash(x)` can change

before resizing

after resizing