

(ii) String pool (memory optimization)

- Java maintains a pool of String to save memory.

- If strings could be changed, this pool wouldn't be safe, because one change would affect all references.

~~(iii) Immutable objects are automatic~~

(iii) Thread Safety

(i) Immutable objects are ~~do~~ automatically safe to use across multiple threads.

(iv) Caching hashcode

- Because the string can never change, its hashcode() is cached for fast lookup.
e.g. in Hash maps.