String

String str1 = "abcd";
String str2 = "abcd";

N   (N+M)

M

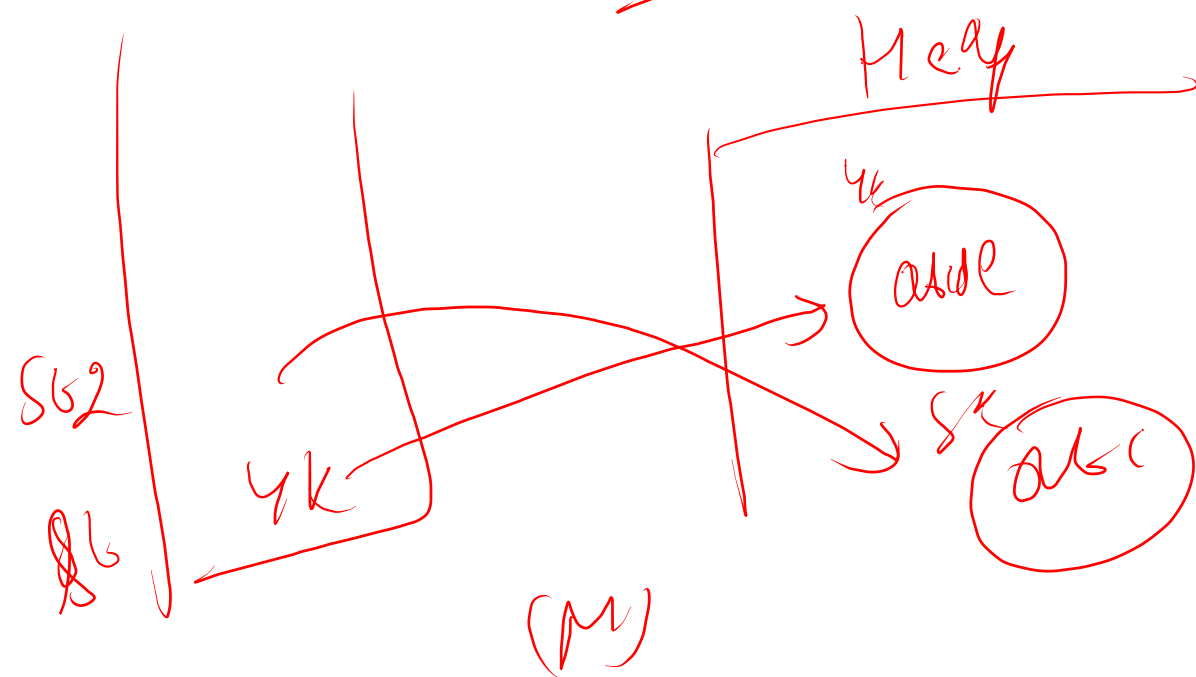str2 += 'e';
str1 += 'f';

Str3 4K
Str2 5K
Str1 6K

Str3K

Heap
interpool memory

4K "abcd"

6K
abcdf

5K
abcde
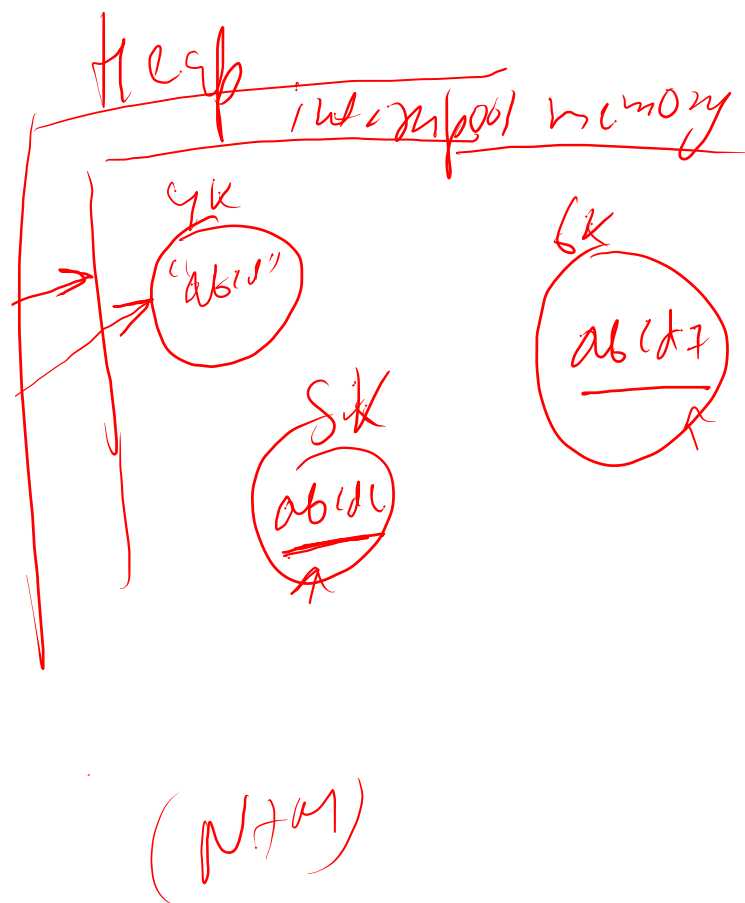
(N+M)

StringBuilder sb = new StringBuilder();
sb.append("abcd");
sb.append("ce");   ← O(1)

O(M)

Heap

4k
abcde

5k
abc

sb2
sb   4k

(M)

StringBuilder sb2 = new StringBuilder("abc")

String Str = "abcde7gh"
          0 1 2 3 4 5 6 7

String S = Str.SubString (beginindex, endindex +1);

String S = Str.SubString (beginindex);

int len = Str.length();

char ch = Str.charAt(index);

StringBuilder Sb = new StringBuilder("abcde7gh");
  → String S = Sb.toString();
  → Sb.append("abcd");
StringBuilder S = Str.SubString (beginindex, endindex +1);

StringBuilder S = Str.SubString (beginindex);

int len = Str.length();

char ch = Str.charAt(index);

→ Sb.deletecharAt(index)