NAÏVE PATTERN SEARCH

```
public class NaivePatternSearch {
  public static void naivePatternSearch(String text, String pattern) {
    int textLength = text.length();
    int patternLength = pattern.length();
    int comparisons = 0;
    for (int i = 0; i <= textLength - patternLength; i++) {
      int j;
      for (j = 0; j < patternLength; j++) {
         comparisons++;
         if (text.charAt(i + j) != pattern.charAt(j)) {
           break;
         }
      if (j == patternLength) {
         System.out.println("Pattern found at index " + i);
      }
    System.out.println("Total comparisons made: " + comparisons);
  }
  public static void main(String[] args) {
    String text = "AABAACAADAABAAABAA";
    String pattern = "AABA";
```

```
naivePatternSearch(text, pattern);
 }
}
              public static void naivePatternSearch(String text, String pattern) {
                  int textLength = text.length();
int patternLength = pattern.length();
                   int comparisons = 0;
                  for (int i = 0; i <= textLength - patternLength; i++) {</pre>
                       int j;
for (j = 0; j < patternLength; j++) {
   comparisons++;
   comparisons++;</pre>
                            if (text.charAt(i + j) != pattern.charAt(j)) {
                       }
if (j == patternLength) {
   out.println("Page 1.5")
                               stem.out.println("Pattern found at index " + i);
                   System.out.println("Total comparisons made: " + comparisons);
             public static void main(String[] args) {
                   String text = "AABAACAADAABAAABAA";
                          pattern = "AABA";
                  naivePatternSearch(text, pattern);
```

```
Pattern found at index 0
Pattern found at index 9
Pattern found at index 13
Total comparisons made: 35
```