int[] failureTable = *buildFailureTable*(pattern, comparator);  
List<Integer> list = new ArrayList<>();  
  
int j = 0;  
int k = 0;  
  
while ((k - j) <= (text.length() - pattern.length())) {  
 if (comparator.compare(text.charAt(k), pattern.charAt(j)) == 0) {  
 if (j == pattern.length() - 1) {  
 list.add(k - j);  
 k++;  
 j = failureTable[j];  
 } else {  
 j++;  
 k++;  
 }  
 } else {  
 if (j == 0) {  
 k++;  
 } else {  
 j = failureTable[j - 1];  
 }  
 }  
}  
return list;