```
1.) A)
      |0|1|2|3|4|5|6|
      |a|a|b|a|a|b|b|
  P[j]
 f[i]
      |0|1|0|1|2|3|0|
      P[0...1] = aa
 j=1
      P[1...1] = a
                          -> f(1) = 1
      P[0...2] = aab
 j=2
      P[1...2] = ab
                          -> f(2) = 0
      P[0...3] = aaba
 j=3
      P[1...3] = aba
                          -> f(3) = 1
      P[0...4] = aabaa
 j=4
                          -> f(4) = 2
      P[1...4] = abaa
      P[0...5] = aabaab
 j=5
                          -> f(5) = 3
      P[1...5] = abaab
      P[0...6] = aabaabb
 j=6
      P[1...6] = abaabb
                          -> f(6) = 0
B) Pattern: a a b a a b b
 |b|a|a|a|b|b|a|a|b|a|a|b|a|a|b|b|
 |a|a(2)| | |
 |a|a|b(2)| |
 |a|a|b|a(0)|
 |a|a|b|a|a(0)|
 |a|a|b|a|a|b(1)|
 |a|a|b|a|a|b|b(3)|
 | |a|a|b|a|a|b|b(0)|
```

Total number of comparisons: 17