REPETITION-MATCHER(T, P, n, m)

```
 1  k = 1 + ρ*(P)
 2  q = 0
 3  s = 0
 4  while s ≤ n − m
 5      if T[s + q + 1] == P[q + 1]
 6          q = q + 1
 7          if q == m
 8              print "Pattern occurs with shift" s
 9      if q == m or T[s + q + 1] ≠ P[q + 1]
10          s = s + max {1, ⌈q/k⌉}
11          q = 0
```