**Assignment 5 Problem 3**

1. Compute the failure array for the pattern *P* =ababac.
2. Show how to search for pattern *P* =ababac in the text *T* =abcaabaabababacabcaa using the KMP algorithm. Indicate in a table such as Table **1** which characters of *P* were compared with which characters of *T* . Follow the example on slide 27 in module 8. Place each character of *P* in the column of the compared-to character of *T*. Put brackets around the character if an actual comparison was not performed. You may not need all space in the table.

solution:

**a)** Let the failure array be F, then F[0] = 0

F[1] = 0

F[2] = 1

F[3] = 2

F[4] = 3

F[5] = 0

**b)**

**图表, 散点图

描述已自动生成**