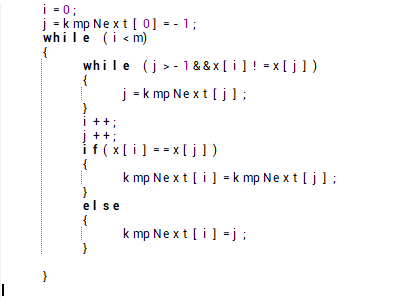
**Soal 1.**

Text(x) = KALSOIPDJSKALANAMBEWLSKSLADJDNAMBERELASJNAMBDOLASS

Kata yang akan dicari(y) : NAMBE dengan Length = m = 5

Program KMP:



Ditentukan kmpnext pada index 0 adalah -1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N | A | M | B | E |
| -1 |  |  |  |  |

Dikarenakan i **(0)** < m **(5)** terpenuhi tetapi tidak dengan j **(0)** > -1 maka nilai i dan j ditambah 1 menjadi

i = 1 , j = 0

lalu karena x[1] **(A)** tidak sama dengan y[0] **(N)**

maka dijalankan

kmpnext [1] = 0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N | A | M | B | E |
| -1 | 0 |  |  |  |

Dikarenakan i **(1)** < m **(5)** dan x[1] **(A)** != y[0] **(N)** terpenuhi maka nilai j = kmpnext[0] **(-1)** lalu i dan j ditambah 1

i = 2 , j = 0

lalu karena x[2] **(L)** tidak sama dengan y[0] **(N)**

maka dijalankan

kmpnext [2] = 0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N | A | M | B | E |
| -1 | 0 | 0 |  |  |

Dikarenakan i **(2)** < m **(5)** dan x[2] **(L)** != y[0] **(N)** terpenuhi maka nilai j = kmpnext[0] **(-1)** lalu i dan j ditambah 1

i = 3 , j = 0

lalu karena x[3] **(S)** tidak sama dengan y[0] **(N)**

maka dijalankan

kmpnext [3] = 0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N | A | M | B | E |
| -1 | 0 | 0 | 0 |  |

Dikarenakan i **(3)** < m **(5)** dan x[3] **(S)** != y[0] **(N)** terpenuhi maka nilai j = kmpnext[0] **(-1)** lalu i dan j ditambah 1

i = 4 , j = 0

lalu karena x[4] **(O)** tidak sama dengan y[0] **(N)**

maka dijalankan

kmpnext [4] = 0

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| N | A | M | B | E | - |
| -1 | 0 | 0 | 0 | 0 | 0 |

Dikarenakan i **(4)** < m **(5)** dan x[4] **(O)** != y[0] **(N)** terpenuhi maka nilai j = kmpnext[0] **(-1)** lalu i dan j ditambah 1

i = 5 , j = 0

lalu karena x[5] **(-)** tidak sama dengan y[0] **(N)**

maka dijalankan

kmpnext [5] = 0

Maka didapatkan Tabel KmpNext

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| N | A | M | B | E | - |
| -1 | 0 | 0 | 0 | 0 | 0 |

Proses akan dilakukan dengan membandingkan huruf satu per satu pada text:

KALSOIPDJSKALANAMBEWLSKSLADJDNAMBERELASJNAMBDOLASS

Pencarian

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
| N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

2.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

3.

Salah pada index ke 1 sehingga digeser sebanyak

i – KmpNext[i] = 1 – 0 = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

4.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

5.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

6.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

7.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

8.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

9.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

10.

Salah pada index ke 1 sehingga digeser sebanyak

i – KmpNext[i] = 1 – 0 = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

11.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

12.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

13.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

14.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

15.

Salah pada index ke 1 sehingga digeser sebanyak

i – KmpNext[i] = 1 – 0 = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

16.

Didapatkan kesaaman yang memenuhi kelima index pattern pada index ke 15 kata sehingga bergeser sebanyak banyak index pattern yaitu 5

i – KmpNext[i] = 5 – 0 = 5 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

17.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

18.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

19.

Salah pada index ke 0 sehingga digeser sebanyak

I – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

20.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

21.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

22.

Salah pada index ke 1 sehingga digeser sebanyak

i – KmpNext[i] = 1 – 0 = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

23.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

24.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

25.

Salah pada index ke 1 sehingga digeser sebanyak

i – KmpNext[i] = 1 – 0 = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

26.

Didapatkan kesaaman yang memenuhi kelima index pattern pada index ke 29 kata sehingga bergeser sebanyak banyak index pattern yaitu 5

i – KmpNext[i] = 5 – 0 = 5 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

27.

Didapatkan kesaaman yang memenuhi kelima index pattern pada index ke 30 kata sehingga bergeser sebanyak banyak index pattern yaitu 5

i – KmpNext[i] = 5 – 0 = 5 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |  |

28.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |  |

29.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |  |

30.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |  |

31.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |  |

32.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |  |

33.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |  |  |  |  |  |

33.

Salah pada index ke 4 sehingga digeser sebanyak

i – KmpNext[i] = 4 – 0 = 4 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |

34.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |

35.

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K | A | L | S | O | I | P | D | J | S | K | A | L | A | N | A | M | B | E | W | L | S | K | S | L | A | D | J | D | N | A | M | B | E | R | E | L | A | S | J | N | A | M | B | D | O | L | A | S | S |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N | A | M | B | E |

36.

Pencarian dihentikan karena sudah melebihi banyak kata

Sehingga didapatkan pattern NAMBE pada kata diatas sebanyak 2 kali pada index ke 15 dan 30

Dari sini dapat kita lihat pembuktian bagaimana suatu pattern itu dapat ditemukan atau tidak dengan metode KMP pada suatu kata