50 Karakter : **NADSJKMIRANFSJBFMIRAMSKFNKMIRAHAGDAIMIRAJSBDJAMIRA**

Pattern : **MIRA**

Length dari pattern yang akan dicari : **4**

**Membuat tabel KmpNext dari Pattern yang mau dicari**

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| **M** | **I** | **R** | **A** | **-** |
| **-1** | **0** | **-1** | **1** | **0** |

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
| M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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|  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Terdapat kesamaan yang memenuhi empat index pattern sehingga bergeser sebanyak length pattern yaitu 4

i – KmpNext[i] = 4 – 0 = 4 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
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Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
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Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
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Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
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Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
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i – KmpNext[i] = 0 – (-1) = 1 kotak

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Terdapat kesamaan yang memenuhi empat index pattern sehingga bergeser sebanyak length pattern yaitu 4

i – KmpNext[i] = 4 – 0 = 4 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
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Salah pada index ke 1 sehingga digeser sebanyak

i – KmpNext[i] = 1 – 0 = 1 kotak

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Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
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Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
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Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Terdapat kesamaan yang memenuhi empat index pattern sehingga bergeser sebanyak length pattern yaitu 4

i – KmpNext[i] = 4 – 0 = 4 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |  |  |  |  |

Terdapat kesamaan yang memenuhi empat index pattern sehingga bergeser sebanyak length pattern yaitu 4

i – KmpNext[i] = 4 – 0 = 4 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |  |

Salah pada index ke 0 sehingga digeser sebanyak

i – KmpNext[i] = 0 – (-1) = 1 kotak

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| N | A | D | S | J | K | M | I | R | A | N | F | S | J | B | F | M | I | R | A | M | S | K | F | N | K | M | I | R | A | H | A | G | D | A | I | M | I | R | A | J | S | B | D | J | A | M | I | R | A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | I | R | A |

Terdapat kesamaan yang memenuhi empat index pattern sehingga bergeser sebanyak length pattern yaitu 4

i – KmpNext[i] = 4 – 0 = 4 kotak

Jika dilanjut, akan melebihi banyak karakter sehingga distop sampai disini

Sehingga didapatkan pattern **MIRA** pada kata di atas sebanyak 5 kali pada index ke 6, 16, 23, 36 dan 46