|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |

1.字符串中第一个字符与搜索词中的第一个字符比较

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | B | C | D | A | B | D |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | B | C | D | A | B | D |

不匹配，搜索词后移一位

2.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |

3.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | B | C | D | A | B | D |

....4.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | B | C | D | A | B | D |

1. 字符串中空格与搜索词D不匹配；

后移位数 6-2=4；

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | B | C | D | A | B | D |

1. 字符串中空格与搜索词C不匹配；

后移位数 2-0=2；

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | B | C | D | A | B | D |

7.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | B | C | D | A | B | D |

8.后移6-2-4位，匹配成功

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |
| B | B | C |  | A | B | C | D | A | B |  | A | B | C | D | A | B | C | D | A | B | D | E |

部分匹配表：

"部分匹配值"就是"前缀"和"后缀"的最长的共有元素的长度。以"ABCDABD"为例：

－　"A"的前缀和后缀都为空集，共有元素的长度为0；

－　"AB"的前缀为[A]，后缀为[B]，共有元素的长度为0；

－　"ABC"的前缀为[A, AB]，后缀为[BC, C]，共有元素的长度0；

－　"ABCD"的前缀为[A, AB, ABC]，后缀为[BCD, CD, D]，共有元素的长度为0；

－　"ABCDA"的前缀为[A, AB, ABC, ABCD]，后缀为[BCDA, CDA, DA, A]，共有元素为"A"，长度为1；

－　"ABCDAB"的前缀为[A, AB, ABC, ABCD, ABCDA]，后缀为[BCDAB, CDAB, DAB, AB, B]，共有元素为"AB"，长度为2；

－　"ABCDABD"的前缀为[A, AB, ABC, ABCD, ABCDA, ABCDAB]，后缀为[BCDABD, CDABD, DABD, ABD, BD, D]，共有元素的长度为0。

所以产生的部分匹配表是：

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 搜索词 | A | B | C | D | A | B | D |
| 部分匹配值 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |