Vestavenou funkci find jsme implementovali na základě Boyer-Mooreova algoritmu. Rozhidli jsme se pouzit bad-character heuristiku. Algoritmus porovnává vyhledávaný podřetězec v řetězci zprava doleva. Pokud tedy narazíme v textu na znak, který daný podřetězec vůbec neobsahuje, můžeme se posunout o celou délku vyhledávaného podřetězce dale.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| i | j | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| ***text-->*** | | F | I | N | D | I | **N** | A | H | A | Y | **S** | T | A | C | K | **N** | **E** | **E** | **D** | **L** | **E** | I | N |
| 0 | 5 | N | E | E | D | L | **E** | **<----- *pattern*** | | | | | | | |  |  |  |  |  |  |  |  |  |
| 5 | 5 |  |  |  |  |  | N | E | E | D | L | **E** |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 4 |  |  |  |  |  |  |  |  |  |  |  | N | E | E | D | **L** | **E** |  |  |  |  |  |  |
| 15 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **N** | **E** | **E** | **D** | **L** | **E** |  |  |
| ***return i*** | | | | | | | | | | | | | | | | | | | | | | | | |