**ЛАБОРАТОРНАЯ РАБОТА №5.1**

***Цель*:** научиться реализовывать хеш-таблицу с закрытой адресацией

**Отчет по работе** должен содержать **2 файла: 1) код** программы**; 2)** файл в формате **.pdf** со скринами результатов работы (входные данные и полученный результат).

**Задание 1.**

Реализуйте хеш-таблицу с закрытой адресацией (метод разрешения коллизий методом цепочек)

**Формат ввода**

В первой строке вводится число N – количество запросов

Далее следует N запросов одного из видов:

pus<строка>

pop<строка>

search<строка>

**Формат вывода**

После ввода команды search необходимо ввести TRUE, если искомый элемент присутствует и FALSE иначе.

После ввода команды pop необходимо вывести TRUE, если требуемый элемент удалили и FALSE иначе.

**Примечание**

Для реализации хеш-функции используйте схему Горнера

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| **Пример**   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ввод | | | | Вывод | | | | | | | 40 | | | | | TRUE | | | | | | | push ldnsxtg | | | | | TRUE | | | | | | | push smbayt | | | | | FALSE | | | | | | | push liur | | | | | FALSE | | | | | | | push jjn | | | | | FALSE | | | | | | | push vhxllwvcx | | | | | TRUE | | | | | | | search vhxllwvcx | | | | | FALSE | | | | | | | push xc | | | | | TRUE | | | | | | | search smbayt | | | | | FALSE | | | | | | | search c | | | | | FALSE | | | | | | | search oxjhiefu | | | | | TRUE | | | | | | | pop msxobhcg | | | | | TRUE | | | | | | | search liur | | | | | FALSE | | | | | | | push ws | | | | | TRUE | | | | | | | pop srufjcp | | | | | TRUE | | | | | | | pop ldnsxtg | | | | | TRUE | | | | | | | pop wbiekpxj | | | | | FALSE | | | | | | | push xk | | | | | TRUE | | | | | | | pop uyq | | | | | | FALSE | | | | | | | search ws | | | | | | TRUE | | | | | | | search liur | | | | | | FALSE | | | | | | | pop uvstt | | | | | | FALSE | | | | | | | push j | | | | | | FALSE | | | | | | | pop liur | | | | | | FALSE | | | | | | | push wvf | | | | | | TRUE | | | | | | | pop xk | |  | | | | | | | push uylo |  | | | | | | | search xc |  | | | | | | | push wmgs |  | | | | | | | pop xsgcwxgi |  | | | | | | | pop vhllwvcx |  | | | | | | | pop nl |  | | | | | | | push mk |  | | | | | | | pop wmgs |  | | | | | | | push pvrofxc | | |  | | | | | | | search wxcm | | |  | | | | | | | pop djmrq | | |  | | | | | | | search cweelsqq | | |  | | | | | | | pop brfeokot | | |  | | | | | | | search jjn | | |  | | | | | | | push ldbfj | | |  | | | | | | |  |

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