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CMPE 252 - C Programming, Spring 2023

Prelab 02

You are asked to complete keywordSearch.c program file which has been already given on LMS. Please download and try to fill missing parts of code. This program has two functions which are main and searchKeyword.

main function

- Character arrays (strings) are already given which contain name and surname in the format of "name_surname" and an array of pointers to strings is created with the name nameList using the given strings (p1, p2, ..., p9).
- A keyword is read from the standard input into the string keyword.
- searchKeyword function is called with three arguments, which are the array of pointers nameList, its size 9, and the string keyword.
- The strings that can be accessed using nameList are printed to check whether their contents remain the same after calling searchKeyword function.

searchKeyword function

- Search through the strings and print the ones whose *surname* part is equal to keyword.

As shown in the example runs below, the strings are printed in "Name Surname" format (the first letters are capitalized).

Some functions that you might need to use are as follows:

```
//Compares s1 and s2 alphabetically.
int strcmp(const char* s1, const char* s2);
//Copies the string pointed to, by src to dest.
strcpy(char* dest, const char* src);
//Breaks string str into a series of tokens separated by delim
strtok(char* str, const char* delim);
//Converts lowercase letter of str string to uppercase.
toupper(str[i]);
```

Hints:

strtok function changes the content of its first string argument so you need to call strtok function on a copy of the string argument if you do not want to change its content. For each string that can be accessed using nameList, you can accept their max length as 100. So, you do not need to make any dynamic memory allocation.

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Example run 1:





Enter a keyword: bale

Zoe Bale James Bale Dustin Bale

zoe_bale sam_rodriguez jack_alonso david_studi denzel_feldman james_bale james_willis michael_james dustin_bale Enter a keyword: james

Michael James

zoe_bale sam_rodriguez jack_alonso david_studi denzel_feldman james_bale james_willis michael_james dustin_bale