

King Saud University
College of Computer and Information Sciences
Computer Science Department
CSC215: Procedural Programming with C
Second Semester 2022/2023
Assignment 2
Due Date: Saturday 28-1-2023

Question: Write a C program for a company that keeps track of its employees' information. Your program should have the following declarations and type definitions:

1. The structure *employee* with the following members:
 - **Id:** integer number represents the id of the employee.
 - **name:** a string (with a maximum of 20 letters) holding the employee full name, for example: "Mohammad Ali", etc ...
 - **Salary:** to hold the employee's salary.
 - **ChildrenNames:** a list to store the first name of each child. Note: each employee may has many children (maximum 5 children), all children are stored in the list. What kind of list do you need to declare?!!
 - Counter to keep track of the children number

The main function can read and store information of 3 employees, then read an id, slarary and the number of kids with their names. Then it calls printChildren() to print the information of the specified employee.

void printChildren(struct Employee *array, int id): This function prints the full names of all children, which starts with S letter, of the employee whose id is the received id. Show an appropriate message in case of:

- The employee has no kids.
- No employee with the specified id

Notes:

- No global variables are allowed.
- The system can store the names of at most 5 children for each employee.

Sample output:

```
Enter employee #1 id: 123
Enter employee name: Ahmed Ali
Enter employee salary: 5000
How many kids? 2
Enter child #1 name: Abdullah
Enter child #2 name: Saad
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Enter employee #2 id: 456
Enter employee name: Muhammed Omar
Enter employee salary: 10000
How many kids? 3
Enter child #1 name: Hamad
Enter child #2 name: Sara
Enter child #3 name: Salman

Enter employee #3 id: 789
Enter employee name: Khalid Faisal
Enter employee salary: 7000
How many kids? 0

Enter the id of the employee you would like to view his child's name
starting with letter S: 456
Children names:
Sara Muhammed Omar
Salman Muhammed Omar