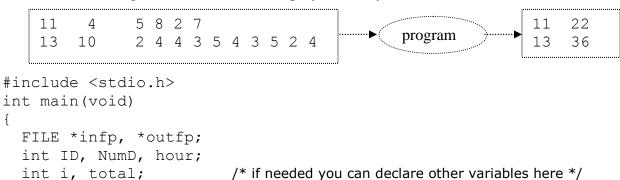
Name:..... Q6

CS2123 Data Structures

1. (5pt) Suppose we have an employee data file (say emp.txt) containing the followings in each line per employee: *employee ID*, *how many days he/she worked*, and *how many hours he/she worked in each day*. Complete the following program that can read emp.txt file and print out the *employee ID* and *total number of hours* for each employee into an output file (say out.txt). For example, here is a sample **emp.txt** file with two employees and the expected **out.txt** file (an actual file may have more lines or days, so your program should be general enough to work with other files containing different number of employees or days):



2. (5pt) Write a program that reads a given text file line by line and prints out the lines that contain a given keyword along with the line numbers in the input file.

The input file name and the keyword will be given as command line arguments.

Here is an **example**. Suppose we have the following lines in input.txt

this file has many words in many lines some words are the important keywords try to find the lines that contain your keyword ignore the other lines

When we execute your prog as follows

> prog input.txt word

it should print out the following lines on the screen

Line 1: this file has many words in many lines

Line 2: some words are the important keywords

Line 4: that contain your keyword

If needed, you can assume that the length of a line is less than 255 characters.

Also suppose the following function is available. If needed, you can use it in your program.

```
int substrindex(char *str, char *substr);
```

which returns -1 if substr is not in str; otherwise, it returns an index value showing where substr starts in str. This function expects both str and substr to be null terminated strings.

Implement your program in the next page.

Name.....

#include <stdio.h>

#include <string.h>