

Homework #5

(Chapter 5)

Programming Requirements:

1. Your program should follow the conventional programming style such as
 - a) align all statements properly
 - b) indent the statements within each pair of { }
 - c) add comments and insert blank lines to make the program more readable

2. Your handed-in homework must have the following three printouts:
 - i. the text program (PDF or screenshot) and
 - ii. the screenshot of the running result of the program

Problem 1:

Write a program that performs a survey tally on beverages. The program should **repeatedly** prompt for the next person to enter a choice until a sentinel value of -1 is entered to terminate the program. Each person participating in the survey should choose their favorite beverage from the following list:

1. Coffee
2. Tea
3. Coke
4. Orange Juice

(Hint: For each beverage, define a counting variable to count # of persons who choose it as his/her favorite beverage. Refer to [Program 5-8](#) for help.)

Sample Run:

1. Coffee
2. Tea
3. Coke
4. Orange Juice

Please input the favorite beverage of person #1:
Choose 1, 2, 3, or 4 from the above menu or -1 to exit the program
4

Please input the favorite beverage of person #2:
Choose 1, 2, 3, or 4 from the above menu or -1 to exit the program
1

Please input the favorite beverage of person #3:
Choose 1, 2, 3, or 4 from the above menu or -1 to exit the program
3

Please input the favorite beverage of person #4:
Choose 1, 2, 3, or 4 from the above menu or -1 to exit the program
1

Please input the favorite beverage of person #5:
Choose 1, 2, 3, or 4 from the above menu or -1 to exit the program
1

Please input the favorite beverage of person #6:
Choose 1, 2, 3, or 4 from the above menu or -1 to exit the program
-1

The total number of people surveyed is 5. The results are as follows:

Beverage	Number of Votes

Coffee	3
Tea	0
Coke	1
Orange Juice	1

Problem 2:

Write a program for Nation's Bank in Hyatesville that will find the total number of days its employees were out sick for the specified past few years. The program will prompt the user to specify the number of past years to consider. It will also prompt the user for the number of tellers worked in the bank for the past specified years. For each worker the program should ask for the number of days out sick for each of the last specified years. The output should provide the number of tellers and the total number of days missed by all the tellers over the last specified years. See the sample output below. (Refer to [Program 5-16](#) for help.)

Sample Run:

How many past years do you want to consider?

3

How many tellers worked at Nation's Bank during each of the last 3 years?

2

How many days was teller 1 out sick during year 1?

5

How many days was teller 1 out sick during year 2?

8

How many days was teller 1 out sick during year 3?

2

How many days was teller 2 out sick during year 1?

1

How many days was teller 2 out sick during year 2?

0

How many days was teller 2 out sick during year 3?

3

The 2 tellers were out sick for a total of 19 days during the last 3 years.