

Function Exercises

1. Given the following function prototype:
`void ThisFunction(int a, float b);`
 - a. write the header for the function.

 - b. show how you might call the function in a program.

2. Given the following function header:
`float ThatFunction(float a)`
 - a. write a prototype for the function.

 - b. show how you might call the function in a program. Assume that you want to assign the value returned by the function to a variable already declared as “float c”.

3. Given the following function prototype:
`int AnotherFunction(void);`
 - a. write the header for the function.

 - b. show how you might call the function in a program. Assume you want to print the value returned by the function.

4. Given the following function header:
`void YetAnotherFunction(char name[], int &number)`
and assuming the following declarations exist in your program:
`int a = 10; float b = 20.0; char ch = 'A'; char supervisor[20] = “Darth Vader”;`
show how you would call the function and pass the appropriate variables to it.

5. Assume you have the following statements in a program:

```
int employeeID = 1234;  
char employeeName[20] = "Darth Sidious";  
double payRate = 12.0;  
double grossPay = 240.00;
```

```
void PrintPayroll(int id, char name[], double rate, double gross); // prototype
```

- a. Write a function definition for the PrintPayroll function. Write the four items to cout on one line with tabs (\t) between them.

 - b. Show how you would call PrintPayroll() from the program, passing the appropriate variables to it.
6. Write a function definition for a function called CalculateGrossPay that receives an employee's payrate and hours worked and returns the gross pay the employee earned. The function should calculate "time and a half" pay for all hours over 40.
7. Show how you might call the function from a program.
8. Write a function definition for a function called DaysPerMonth that receives the number of a month (1 – 12) and returns the number of days in that month. Assume February is 28 days. Use a switch statement.
9. Show how you would call DaysPerMonth in a program.
10. Write a function called SetPayrollInfo that contains instructions to read payroll information from cin. Read employeeID, employeeName, payRate, and hoursWorked