**Name**: \_\_\_Tailang Cao\_\_\_

Fill the following table with your solution:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Executable size without using –g :** ----------------- 464 | | | | **Why?**  Compiling a program with -g flag includes debugging information in the executable which can increase the size of executable because it includes symbol, line number, type and source code information | |
| **Executable size when using –g :** --------------- 680 | | | |
|  | | | | | |
|  | | | | | |
| **Bug #** | **Details** | | | **Proposed solution** | |
| File, line | Function name | Description | Description | Modified code |
| **1** | Department.cpp  #71 | Int Department::CalculateAverageSalary  (StaffTypes type) | The data type of i is integer, which makes the return type be integer | Change the data type of i to double | double i; |
| **2** | Department.cpp  #77, #83 | Int Department::CalculateAverageSalary  (StaffTypes type) | The sum of employee and programmer is taken as the last iterated salary instead of the sum | Change the calculation of sum | sum += Employees->at(i).getSalary();  sum += Programmers->at(i).getSalary(); |
| **3** | employeeClass.h  #30 | virtual void print(); | The function isn’t virtual, thus cannot be override | Change the function to virtual function | virtual void print(); |

Add rows when necessary.