Your task is to write a little utility program to assist a local insurance agency on calculating monthly cost of car insurance based on personal information and driving history of the individual requesting it.

These are the requirements for the program:

**Req 1:** The base monthly cost of insuring a car is $50.00 -- this is the starting cost, we will add to this cost as we collect more information (see the rest of the requirements)

**Req 2:** Your program should get the age of the driver from the user.

If the driver is under the age of 25, the monthly premium goes up $100;

otherwise, If the driver is under the age of 35, the monthly premium goes up $20.

For example, for a 23 year old driver, you should add $100 to the base premium. For a 28 year old driver, you should add only $20 to the base premium. Any driver over the age of 35, does not get any additional premium due to age.

**Req 3:** Program should get the number of accidents in the last 5 years from the user.

* Up to one accident is forgiven under accident forgiveness policy.
* If the number of accidents is less than 3, then you add $40 per accident.
* If the number of accidents is more than or equal to 3, you add $60 per accident to the monthly premium.
* If driver had more than 4 accidents in the past 5 years, we cannot provide insurance (let the user know with a message).

Number of Accidents: Accident Surcharge

* 1 Accident None = Accident Forgiveness, no additional charge
* 2 Accidents $40 per accident = $80 additional charge
* 3 Accidents $60 per accident = $180 additional charge
* 4 Accidents $60 per accident = $240 additional charge
* 5 Accidents Can not insure

Use the following test cases to make sure that your program is functioning properly.

Based on the above 3 requirements, compute and output the monthly premium for the driver.

* Test Case 1: 24 years old driver with no accident should output $150.00.
* Test Case 2: 24 years old driver with 3 accidents should output $330.00.
* Test Case 3: 26 years old driver with no accidents should output $70.00.
* Test Case 4: 50 years old driver with 2 accidents should output $130.00.

Submit the cpp file for grading.