

```

- This vehicle is allowed on road A and B only
Brand: Toyota
Car Type: private
Car Plate: ABC123
Speed: 80
Year Model: 2010
This vehicle will be fined on road A.
Age: 12

- This vehicle is allowed on road B only
Age: 7

- This vehicle is allowed on road A and B only
Brand: BMW
Car Type: private
Car Plate: BGH792
Speed: 110
Year Model: 2018
This vehicle will be fined on road A.
This vehicle will be fined on road B.
Age: 4

- This vehicle is allowed on road A and B only
Brand: Ducatti
Car Type: motorcycle
Car Plate: TLR260
Speed: 100
Year Model: 2020
This vehicle will be fined on road A.
This vehicle will be fined on road B.
Age: 2

- This vehicle is allowed on road B and C only
Age: 3

- This vehicle is allowed on road A and B only
Age: 6

```

```

- This vehicle is allowed on road A and B only
Brand: Nissan
Car Type: private
Car Plate: ACF704
Speed: 85
Year Model: 2021
This vehicle will be fined on road A.
This vehicle will be fined on road B.
Age: 1

- This vehicle is allowed on road B and C only
Age: 5

Number of cars that passed by road A: 5
Efficiency: 62.5%
Number of cars that passed by road B: 8
Efficiency: 100%
Number of cars that passed by road C: 2
Efficiency: 25%

C:\Users\yasme\source\repos\CS2 Assignment 1\64\Debug\CS2 Assignment 1.exe (process 48216) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .

```

The program checks the roads that the vehicle is allowed to pass on through the allow function. Then, it checks the speed of the vehicle through radar function to see if it exceeds any speed limit of all the roads allowed. If it exceeds any of the speed limits of the roads allowed, all the details of the vehicle are printed, along with a statement that says which road will the car be fined on, depending on which road's speed limit it exceeds. Finally, the age of the vehicle is printed. At the end of the program, the number of cars allowed on each road is printed. Then, this number is used to calculate the efficiency of each road.