

CSE 114
Fall 2016
Fundamentals of Computer Programming
Assignment 2
Due: 11.10.2016 at 13:00

In this assignment, you will implement a C program that will assist a user who wants to buy a car. Initially, your program should present features of the cars to the user as given in Table 1, where 4 types of features are specified for 6 different car brands. These features are **price range (p)**, **horsepower (hp)**, **top speed (ts)** and **DVD video system**. The last feature indicates whether the car has a built-in DVD video system or not. After displaying the table, the user will be asked to enter his/her preferences about the car s/he wants to buy. Finally, your program should display the brand and features of the car(s) suggested for the user by comparing the user's preferences against the criteria defined in Table 1. Some features might be irrelevant for the user. For such features, the user can enter a negative integer value. If specifications preferred by the user do not match with the features offered by the program, the user should be replied with a message "*No matching cars*". The number of *if statements* you incorporate will influence your grade.

Brand	Price range (p) (€)	Horsepower (hp) (RPM)	Top speed (ts) (mph)	DVD video system
Peugeot	$10000 \leq p \leq 15000$	$230 \leq hp \leq 250$	ts=130	No
Renault	$15000 \leq p \leq 25000$	$250 \leq hp \leq 300$	ts=140	No
Opel	$20000 \leq p \leq 25000$	$300 \leq hp \leq 320$	ts=155	No
Audi	$30000 \leq p \leq 40000$	$350 \leq hp \leq 360$	ts=180	Yes
Volvo	$35000 \leq p \leq 40000$	$350 \leq hp \leq 360$	ts=200	Yes
BMW	$41000 \leq p \leq 50000$	$380 \leq hp \leq 400$	ts=220	Yes

Table 1. Brands and features of cars