## 3.Car Factory

Write a program that assembles a car by **giving requirements** out of **existing** **components**. The client will place an order in the form of an **object describing** the car. You need to **determine** which parts to use to fulfill the client’s order. You have the following parts in storage:

An **engine** has **power** (given in horsepower) and **volume** (given in cubic centimeters). Both of these values are **numbers**. When selecting an engine, pick the **smallest possible** that still meets the requirements.

Small engine: { power: 90, volume: 1800 }

Normal engine: { power: 120, volume: 2400 }

Monster engine: { power: 200, volume: 3500 }

A **carriage** has a **type** and **color**. Both of these values are **strings**. You have two types of carriages in storage and can paint them **any color**.

Hatchback: { type: 'hatchback', color: <as required> }

Coupe: { type: 'coupe', color: <as required> }

The **wheels** will be represented by an **array** of 4 **numbers**, each number represents the **diameter** of the wheel in inches. The size can only be an **odd number**. Round **down** any requirements you receive to the nearest odd number.

### Input

You will receive an **object** as an **argument** to your function. The format will be as follows:

{ model: <model name>,

power: <minimum power>,

color: <color>,

carriage: <carriage type>,

wheelsize: <size> }

### Output

**Return** the resulting car **object** as a result of your function. See the examples for details.

### Examples

|  |  |
| --- | --- |
| Sample input | Output |
| { model: 'VW Golf II',  power: 90,  color: 'blue',  carriage: 'hatchback',  wheelsize: 14 } | { model: 'VW Golf II',  engine: { power: 90,  volume: 1800 },  carriage: { type: 'hatchback',  color: 'blue' },  wheels: [13, 13, 13, 13] } |
| { model: 'Opel Vectra',  power: 110,  color: 'grey',  carriage: 'coupe',  wheelsize: 17 } | { model: 'Opel Vectra',  engine: { power: 120,  volume: 2400 },  carriage: { type: 'coupe',  color: 'grey' },  wheels: [17, 17, 17, 17] } |