B-TREE

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Estrutura

```
class Registro<V>{
    private V obj;

public Registro(V obj) {
    this.obj = obj;
  }

public V getObjeto() {
    return obj;
  }
}
```

```
class Item<K extends Comparable<K>, V> {
    private Registro<V> reg;
    private String key;
    private Endereco esq, dir;

public Item(Registro<V> reg, String key) {
        this.reg = reg;
        this.key = key;
    }

public int compara(String chave) {
        return this.key.compareTo(chave);
    }
```

Objeto

```
public Engine(String name, String hp, String
torque, String manufacturer, int numberOfCylinders,
int valvesPerCylinder, String productionYears) {
    this.name = name;
    this.hp = hp;
    this.torque = torque;
    this.manufacturer = manufacturer;
    this.numberOfCylinders = numberOfCylinders;
    this.valvesPerCylinder = valvesPerCylinder;
    this.productionYears = productionYears;
}
```

```
1ZZ, 120-140, 122-126, Toyota, 4, 4, 1998-2007

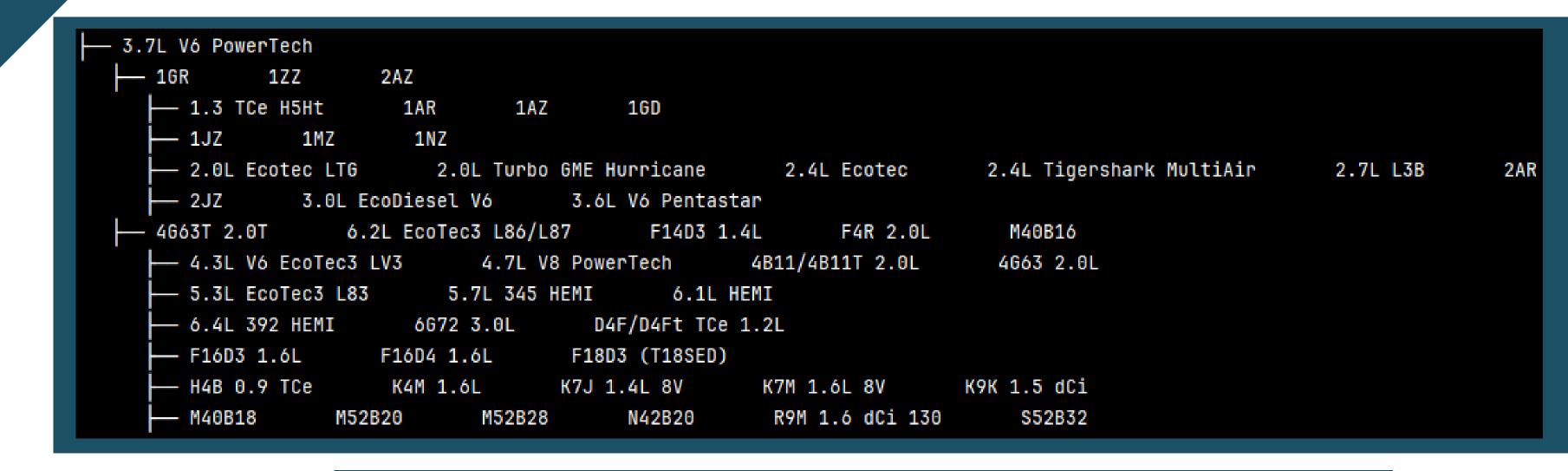
2AR, 169-180, 167-173, Toyota, 4, 4, 2008-present

2AZ, 160, 162, Toyota, 4, 4, 2000-present

2JZ,215-325, 209-333, Toyota, 6, 4, 1991-2007

M40B16, 102, 105, BMW, 4, 2, 1987-1994

M40B18, 113, 120, BMW, 4, 2, 1987-1994
```





```
3.7L Vó PowerTech
  - 1GR
             2.0L Turbo GME Hurricane
                                            2AZ
   — 1.3 TCe H5Ht
                         1AR
                                             16D
                                   1AZ
    - 1JZ
                          1NZ
                                    2.0L Ecotec LTG
                1MZ
     2.4L Ecotec
                        2.4L Tigershark MultiAir
                                                       2.7L L3B
                                                                       2AR
                3.0L EcoDiesel Vó
     2JZ
                                        3.6L V6 Pentastar
                    6.2L EcoTec3 L86/L87
                                               F14D3 1.4L
 - 4G63T 2.0T
                                                                                M40B16
                                                                F4R 2.0L
                                4.7L V8 PowerTech
                                                        4B11/4B11T 2.0L
    – 4.3L V6 EcoTec3 LV3
                                                                               4663 2.0L
    - 5.3L EcoTec3 L83
                             5.7L 345 HEMI
                                                 6.1L HEMI
                          6G72 3.0L
     - 6.4L 392 HEMI
                                          D4F/D4Ft TCe 1.2L
                       F16D4 1.6L
     F16D3 1.6L
                                        F18D3 (T18SED)
                        K4M 1.6L
                                       K7J 1.4L 8V
                                                         K7M 1.6L 8V
                                                                            K9K 1.5 dCi
      H4B 0.9 TCe
                                                                                 S52B32
      M40B18
                   M52B20
                                             N42B20
                                                           R9M 1.6 dCi 130
                                M52B28
```

REFERÊNCIA

MOTORREVIEWER. Engine Specifications and Overviews

. Disponível em: https://www.motorreviewer.com/>. Acesso em: 14 dez. 2024.