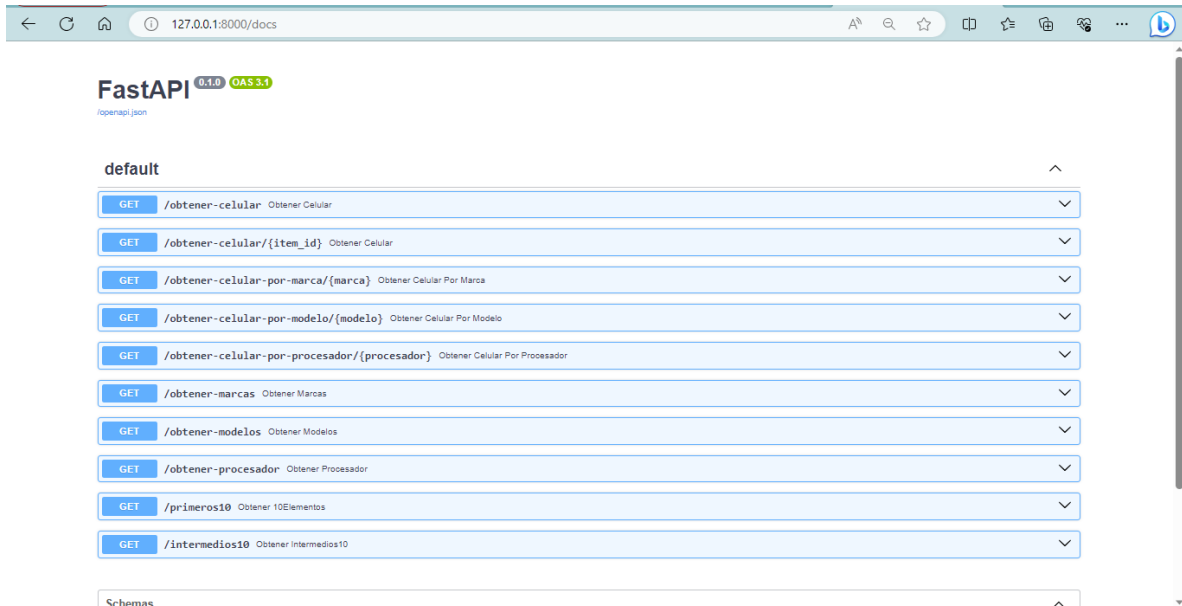


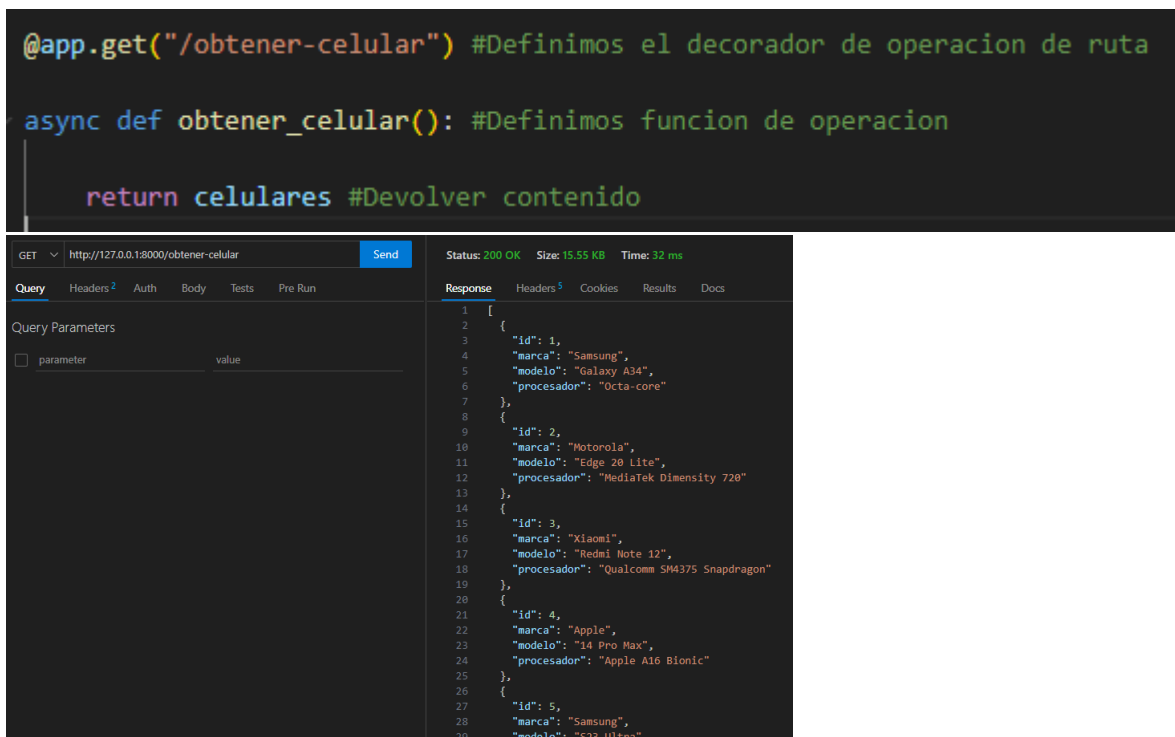
ACTIVIDAD 1 (API solo Get)

Documentación de API



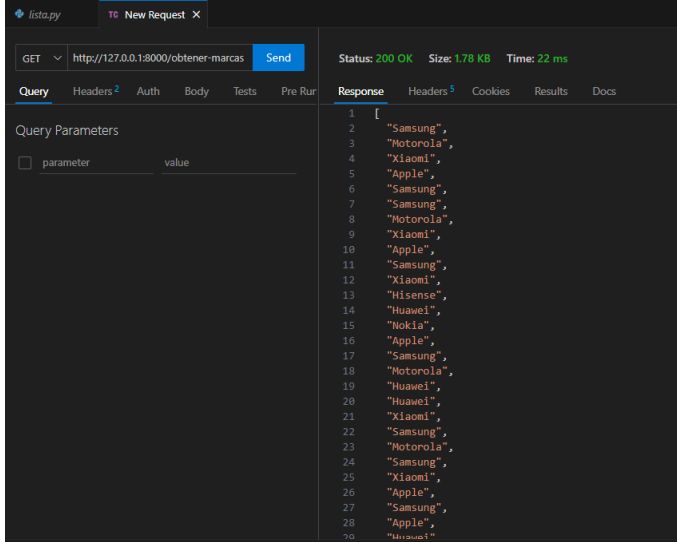
Interacción (Cliente API)

GET para obtener la lista completa de 200 celulares con sus atributos



GET para obtener la lista de las 200 marcas

```
#obtener toda la lista de marcas que hay
@app.get("/obtener-marcas")
async def obtener_marcas():
    lista = []
    for i in celulares:
        lista.append(i["marca"])
    return lista
```

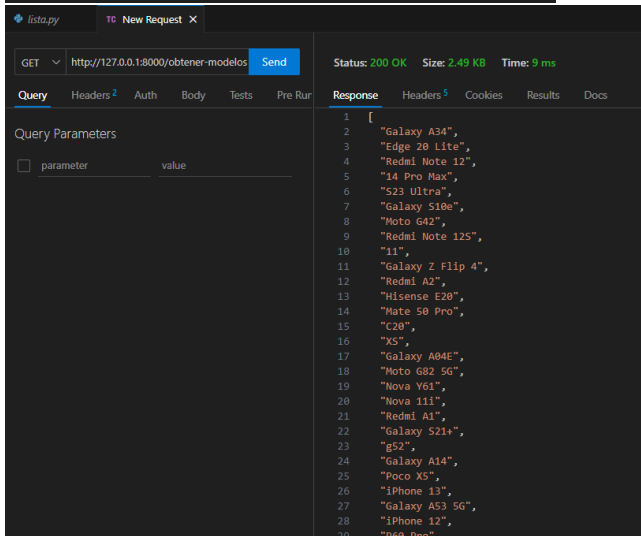


The screenshot shows a REST client interface with the following details:

- Request:** GET http://127.0.0.1:8000/obtener-marcas. Status: 200 OK, Size: 1.78 KB, Time: 22 ms.
- Response:** A JSON array of 200 brand names. The first few are: ["Samsung", "Motorola", "Xiaomi", "Apple", "Samsung", "Samsung", "Motorola", "Xiaomi", "Apple", "Samsung", "Xiaomi", "Hisense", "Huawei", "Nokia", "Apple", "Samsung", "Motorola", "Huawei", "Huawei", "Xiaomi", "Samsung", "Motorola", "Samsung", "Xiaomi", "Apple", "Samsung", "Apple", "Huawei"].

GET para obtener la lista de 200 modelos

```
#obtener toda la lista de modelos que hay
@app.get("/obtener-modelos")
async def obtener_modelos():
    lista = []
    for i in celulares:
        lista.append(i["modelo"])
    return lista
```

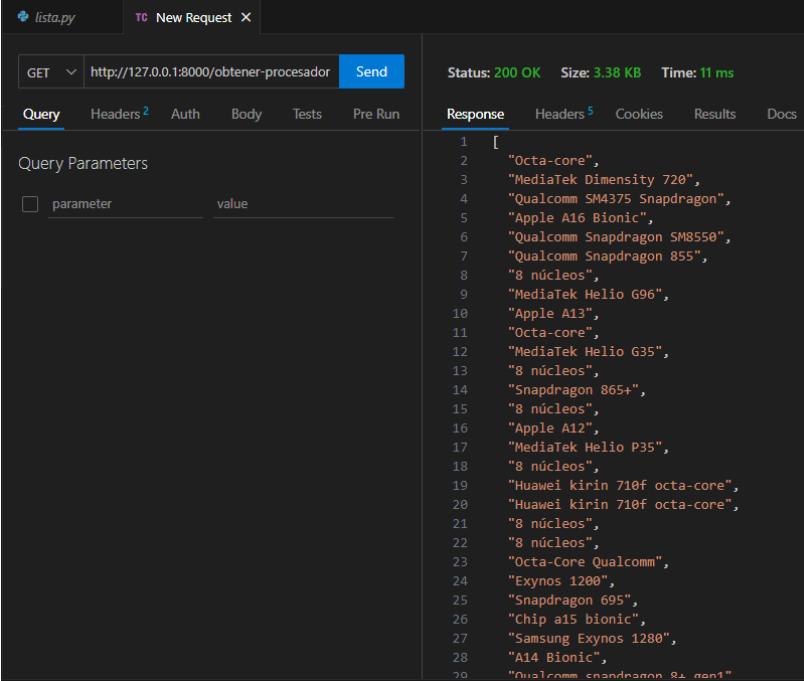


The screenshot shows a REST client interface with the following details:

- Request:** GET http://127.0.0.1:8000/obtener-modelos. Status: 200 OK, Size: 2.49 KB, Time: 9 ms.
- Response:** A JSON array of 200 model names. The first few are: ["Galaxy A34", "Edge 20 Lite", "Redmi Note 12", "14 Pro Max", "S23 Ultra", "Galaxy S10e", "Moto G42", "Redmi Note 12S", "11", "Galaxy Z Flip 4", "Redmi A2", "Hisense E20", "Mate 50 Pro", "C20", "X5", "Galaxy A04E", "Moto G82 5G", "Nova V61", "Nova 11i", "Redmi A1", "Galaxy S21+", "g52", "Galaxy A14", "Poco X5", "iPhone 13", "Galaxy A53 5G", "iPhone 12", "P60 Pro"].

GET para obtener la lista de los 200 procesadores

```
#obtener todos los procesadores que hay en la lista
@app.get("/obtener-procesador")
async def obtener_procesador():
    lista = []
    for i in celulares:
        lista.append(i["procesador"])
    return lista
```



Query Parameters

parameter	value
-----------	-------

Response

```
[
  "Octa-core",
  "MediaTek Dimensity 720",
  "Qualcomm SM4375 Snapdragon",
  "Apple A16 Bionic",
  "Qualcomm Snapdragon SM8550",
  "Qualcomm Snapdragon 855",
  "8 núcleos",
  "MediaTek Helio G96",
  "Apple A13",
  "Octa-core",
  "MediaTek Helio G35",
  "8 núcleos",
  "Snapdragon 865+",
  "8 núcleos",
  "Apple A12",
  "MediaTek Helio P35",
  "8 núcleos",
  "Huawei kirin 710f octa-core",
  "Huawei kirin 710f octa-core",
  "8 núcleos",
  "8 núcleos",
  "Octa-Core Qualcomm",
  "Exynos 1280",
  "Snapdragon 695",
  "Chip a15 bionic",
  "Samsung Exynos 1280",
  "A14 Bionic",
  "Qualcomm Snapdragon 8+ gen1"
```

GET para obtener un celular por su id

```
#Ruta para obtener un celular por su ID
@app.get("/obtener-celular/{item_id}")
async def obtener_celular(item_id: int):
    for item in celulares:
        if item["id"] == item_id:
            return item
    return {"mensaje": "Item no encontrado"}
```

GET

Status: 200 OK Size: 96 Bytes Time: 10 ms

Query Headers² Auth Body Tests Pre Run

Query Parameters

<input type="checkbox"/> parameter	value
------------------------------------	-------

Response Headers⁵ Cookies Results Docs

```
1 {
2   "id": 105,
3   "marca": "Samsung",
4   "modelo": "Galaxy Z Flip5",
5   "procesador": "Qualcomm Snapdragon SM8550"
6 }
```

GET para obtener celulares por la marca especificada

```
#Ruta para obtener celulares por marca
@app.get("/obtener-celular-por-marca/{marca}")
async def obtener_celular_por_marca(marca: str):
    celular_por_marca = [item for item in celulares if item["marca"].lower() == marca.lower()]
    if celular_por_marca:
        return celular_por_marca
    return {"mensaje": "No se encontraron celulares para la marca especificada"}
```

GET

Status: 200 OK Size: 4.17 KB Time: 7 ms

Query Headers² Auth Body Tests Pre Run

Query Parameters

<input type="checkbox"/> parameter	value
------------------------------------	-------

Response Headers⁵ Cookies Results Docs

```
1 {
2   [
3     {
4       "id": 1,
5       "marca": "Samsung",
6       "modelo": "Galaxy A34",
7       "procesador": "Octa-core"
8     },
9     {
10      "id": 5,
11      "marca": "Samsung",
12      "modelo": "S23 Ultra",
13      "procesador": "Qualcomm Snapdragon SM8550"
14    },
15    {
16      "id": 6,
17      "marca": "Samsung",
18      "modelo": "Galaxy S10e",
19      "procesador": "Qualcomm Snapdragon 855"
20    },
21    {
22      "id": 10,
23      "marca": "Samsung",
24      "modelo": "Galaxy Z Flip 4",
25      "procesador": "Octa-core"
26    },
27    {
28      "id": 16,
29      "marca": "Samsung",
30      "modelo": "Galaxy A04C"
31    }
32  ]
33 }
```

GET para obtener celulares por el modelo especificado

```
#Ruta para obtener celulares por modelo
@app.get("/obtener-celular-por-modelo/{modelo}")
async def obtener_celular_por_modelo(modelo: str):
    celular_por_modelo = [item for item in celulares if item["modelo"].lower() == modelo.lower()]
    if celular_por_modelo:
        return celular_por_modelo
    return {"mensaje": "No se encontraron celulares para el modelo especificado"}
```

GET http://127.0.0.1:8000/obtener-celular-por-modelo/Galaxy Z Flip Send

Status: 200 OK Size: 81 Bytes Time: 6 ms

Query Headers² Auth Body Tests Pre Run

Response Headers⁵ Cookies Results Docs

Query Parameters

☐ parameter value

```

1 [
2   {
3     "id": 10,
4     "marca": "Samsung",
5     "modelo": "Galaxy Z Flip 4",
6     "procesador": "Octa-core"
7   }
8 ]

```

GET para obtener celulares por el procesador especificado

```

#Ruta para obtener por procesador
@app.get("/obtener-celular-por-procesador/{procesador}")

async def obtener_celular_por_procesador(procesador: str):
    celular_por_procesador = [item for item in celulares if item["procesador"].lower() == procesador.lower()]

    if celular_por_procesador:
        return celular_por_procesador

```

GET http://127.0.0.1:8000/obtener-celular-por-procesador/Octa Core Send

Status: 200 OK Size: 2.37 KB Time: 6 ms

Query Headers² Auth Body Tests Pre Run

Response Headers⁵ Cookies Results Docs

Query Parameters

☐ parameter value

```

1 [
2   {
3     "id": 54,
4     "marca": "Xiaomi",
5     "modelo": "Redmi 9T",
6     "procesador": "Octa Core"
7   },
8   {
9     "id": 56,
10    "marca": "Xiaomi",
11    "modelo": "Redmi Note 11S",
12    "procesador": "Octa Core"
13  },
14  {
15    "id": 57,
16    "marca": "Xiaomi",
17    "modelo": "Redmi A2",
18    "procesador": "Octa Core"
19  },
20  {
21    "id": 58,
22    "marca": "Huawei",
23    "modelo": "Nova 11l",
24    "procesador": "Octa Core"
25  },
26  {
27    "id": 59,
28    "marca": "Oppo",
29    "modelo": "Reno 7"

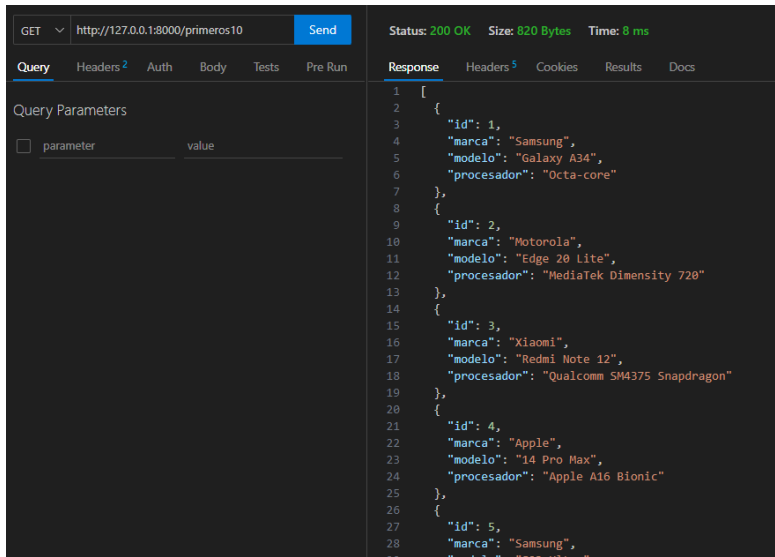
```

GET para obtener los primeros 10 celulares de la lista con sus atributos

```

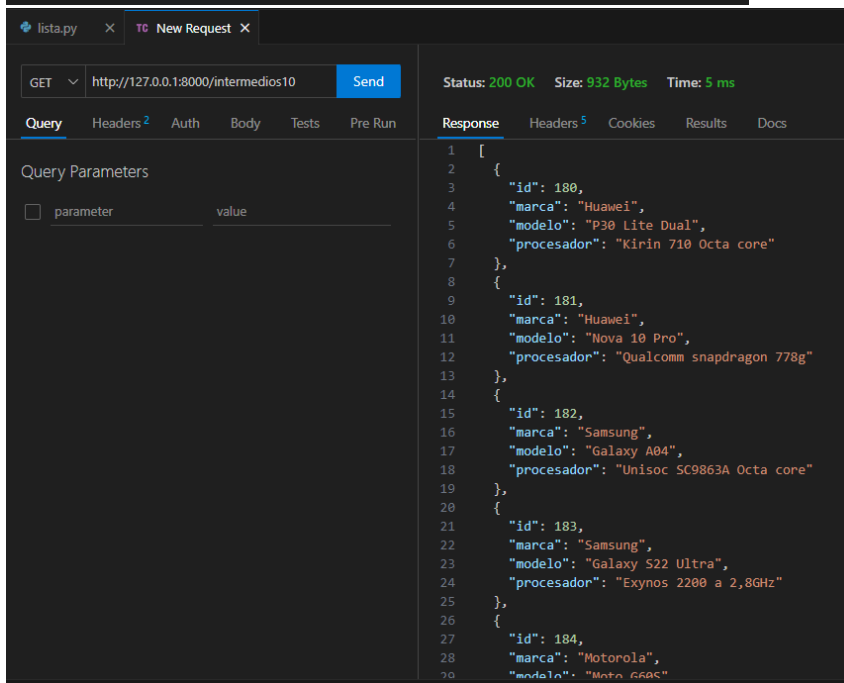
#obtener los primeros diez elementos de "celulares"
@app.get("/primeros10")
async def obtener_10elementos():
    lista = []
    contador = 1
    for celular in celulares:
        if contador <= 10:
            lista.append(celular)
            contador += 1
    return lista

```



GET para obtener los celulares del 180 al 190 de la lista con sus atributos

```
#obtener los ultimos diez elementos de "celulares"
@app.get("/intermedios10")
async def obtener_intermedios10():
    lista = []
    contador = 1
    for celular in celulares:
        if contador >= 180 and contador <= 190:
            lista.append(celular)
        contador += 1
    return lista
```



Lista de 200 items de celulares con atributos

```
#Diccionario de items con 3 características
```

```
celulares = [
```

```
    {"id": 1, "marca": "Samsung", "modelo": "Galaxy A34", "procesador": "Octa-core"},
    {"id": 2, "marca": "Motorola", "modelo": "Edge 20 Lite", "procesador": "MediaTek Dimensity 720"},
    {"id": 3, "marca": "Xiaomi", "modelo": "Redmi Note 12", "procesador": "Qualcomm SM4375 Snapdragon"},
    {"id": 4, "marca": "Apple", "modelo": "14 Pro Max", "procesador": "Apple A16 Bionic"},
    {"id": 5, "marca": "Samsung", "modelo": "S23 Ultra", "procesador": "Qualcomm Snapdragon SM8550"},
    {"id": 6, "marca": "Samsung", "modelo": "Galaxy S10e", "procesador": "Qualcomm Snapdragon 855"},
    {"id": 7, "marca": "Motorola", "modelo": "Moto G42", "procesador": "8 núcleos"},
    {"id": 8, "marca": "Xiaomi", "modelo": "Redmi Note 12S", "procesador": "MediaTek Helio G96"},
    {"id": 9, "marca": "Apple", "modelo": "11", "procesador": "Apple A13"},
    {"id": 10, "marca": "Samsung", "modelo": "Galaxy Z Flip 4", "procesador": "Octa-core"},
    {"id": 11, "marca": "Xiaomi", "modelo": "Redmi A2", "procesador": "MediaTek Helio G35"},
    {"id": 12, "marca": "Hisense", "modelo": "Hisense E28", "procesador": "8 núcleos"},
    {"id": 13, "marca": "Huawei", "modelo": "Mate 50 Pro", "procesador": "Snapdragon 865+"},
    {"id": 14, "marca": "Nokia", "modelo": "C20", "procesador": "8 núcleos"},
    {"id": 15, "marca": "Apple", "modelo": "XS", "procesador": "Apple A12"},
    {"id": 16, "marca": "Samsung", "modelo": "Galaxy A04E", "procesador": "MediaTek Helio P35"},
    {"id": 17, "marca": "Motorola", "modelo": "Moto G82 5G", "procesador": "8 núcleos"},
    {"id": 18, "marca": "Huawei", "modelo": "Nova Y61", "procesador": "Huawei kirin 710f octa-core"},
    {"id": 19, "marca": "Huawei", "modelo": "Nova 11i", "procesador": "Huawei kirin 710f octa-core"},
    {"id": 20, "marca": "Xiaomi", "modelo": "Redmi A1", "procesador": "8 núcleos"},
    {"id": 21, "marca": "Samsung", "modelo": "Galaxy S21+", "procesador": "8 núcleos"},
    {"id": 22, "marca": "Motorola", "modelo": "g52", "procesador": "Octa-Core Qualcomm"},
    {"id": 23, "marca": "Samsung", "modelo": "Galaxy A14", "procesador": "Exynos 1280"},
    {"id": 24, "marca": "Xiaomi", "modelo": "Poco X5", "procesador": "Snapdragon 695"},
    {"id": 25, "marca": "Apple", "modelo": "iPhone 13", "procesador": "Chip a15 bionic"},
    {"id": 26, "marca": "Samsung", "modelo": "Galaxy A53 5G", "procesador": "Samsung Exynos 1280"},
    {"id": 27, "marca": "Apple", "modelo": "iPhone 12", "procesador": "A14 Bionic"},
```

```
{
  "id": 172, "marca": "OnePlus", "modelo": "N10", "procesador": "Octa Core"},
  {"id": 173, "marca": "Motorola", "modelo": "G72", "procesador": "Octa Core"},
  {"id": 174, "marca": "Oppo", "modelo": "A54", "procesador": "Octa Core"},
  {"id": 175, "marca": "Honor", "modelo": "X7A", "procesador": "Octa Core"},
  {"id": 176, "marca": "Motorola", "modelo": "G41", "procesador": "Octa Core"},
  {"id": 177, "marca": "Vivo", "modelo": "V100", "procesador": "Mediatek MT6877"},
  {"id": 178, "marca": "Asus", "modelo": "ROG Phone 7 Ultimate", "procesador": "Octa Core"},
  {"id": 179, "marca": "Google", "modelo": "Pixel 6a", "procesador": "8 núcleos"},
  {"id": 180, "marca": "Huawei", "modelo": "P30 Lite Dual", "procesador": "Kirin 710 Octa core"},
  {"id": 181, "marca": "Huawei", "modelo": "Nova 10 Pro", "procesador": "Qualcomm snapdragon 778g"},
  {"id": 182, "marca": "Samsung", "modelo": "Galaxy A04", "procesador": "Unisoc SC9863A Octa core"},
  {"id": 183, "marca": "Samsung", "modelo": "Galaxy S22 Ultra", "procesador": "Exynos 2200 a 2,8GHz"},
  {"id": 184, "marca": "Motorola", "modelo": "Moto G60S", "procesador": "8 núcleos"},
  {"id": 185, "marca": "Samsung", "modelo": "Galaxy S22 Ultra", "procesador": "Dynamic AMOLED 2X"},
  {"id": 186, "marca": "Honor", "modelo": "X5", "procesador": "Octa Core"},
  {"id": 187, "marca": "Samsung", "modelo": "Galaxy A33", "procesador": "Exynos 1280"},
  {"id": 188, "marca": "Oppo", "modelo": "Reno 6 5G", "procesador": "MediaTek Dimensity 900"},
  {"id": 189, "marca": "Samsung", "modelo": "Galaxy Z Flip4", "procesador": "Snapdragon 8 + Gen 1 (4nm)"},
  {"id": 190, "marca": "Motorola", "modelo": "G50", "procesador": "Snapdragon 662"},
  {"id": 191, "marca": "Xiaomi", "modelo": "11T Pro", "procesador": "Snapdragon 888"},
  {"id": 192, "marca": "Apple", "modelo": "iPhone 11 Pro Max", "procesador": "A13 Bionic"},
  {"id": 193, "marca": "Apple", "modelo": "iPhone 11", "procesador": "A13 Bionic"},
  {"id": 194, "marca": "Apple", "modelo": "iPhone 11 Pro", "procesador": "A13 Bionic"},
  {"id": 195, "marca": "Samsung", "modelo": "Galaxy S21+", "procesador": "Exynos 2100"},
  {"id": 196, "marca": "Samsung", "modelo": "Galaxy S21", "procesador": "Exynos 2100"},
  {"id": 197, "marca": "Samsung", "modelo": "Galaxy S21 Ultra", "procesador": "Exynos 2100"},
  {"id": 198, "marca": "Apple", "modelo": "iPhone 13", "procesador": "A15 Bionic"},
  {"id": 199, "marca": "Apple", "modelo": "iPhone 13 mini", "procesador": "A15 Bionic"},
  {"id": 200, "marca": "Apple", "modelo": "iPhone 13 Pro Max", "procesador": "A15 Bionic"}
}
```