ACTIVIDAD COPILOT

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Una URL que verifique si una cadena es un palíndromo o no, el método debe ser
 GET (no hay restricción de cómo pasa la palabra)

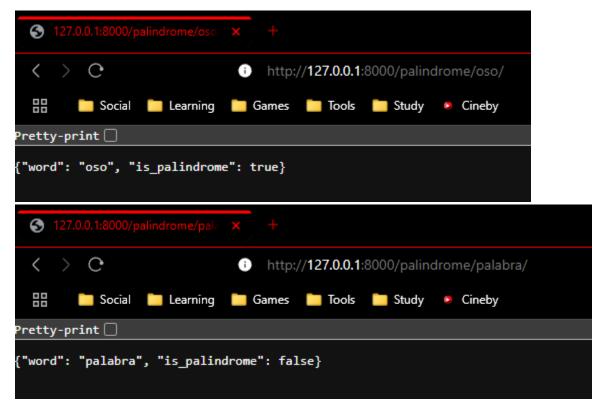
```
urls.py
          X 🕏 views.py
                               -init_.py
ia_practiva > ia_practiva > 💠 urls.py > ...
     Examples:
      Function views
          1. Add an import: from my_app import views
          2. Add a URL to urlpatterns: path('', views.home, name='home')
      Class-based views
          1. Add an import: from other app.views import Home
          2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
      Including another URLconf
          1. Import the include() function: from django.urls import include, path
          2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
      from django.contrib import admin
      from django.urls import path
      from . import views
      urlpatterns = [
          path('admin/', admin.site.urls),
      urlpatterns += [
          path('palindrome/<str:word>/', views.check_palindrome, name='check_palindrome'),
```

```
February 01, 2025 - 07:27:07

Django version 5.1.5, using settings 'ia_practiva.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

Not Found: /
[01/Feb/2025 07:27:11] "GET / HTTP/1.1" 404 2358

Not Found: /favicon.ico
[01/Feb/2025 07:27:11] "GET /favicon.ico HTTP/1.1" 404 2409
[01/Feb/2025 07:28:09] "GET /palindrome/oso/ HTTP/1.1" 200 38
[01/Feb/2025 07:28:19] "GET /palindrome/ajsj/ HTTP/1.1" 200 40
[01/Feb/2025 07:28:48] "GET /palindrome/oso/ HTTP/1.1" 200 38
```



• Una URL que implemente la búsqueda binaria, el método debe ser POST y debe recibir el array y el dato a buscar por medio del Body. (casi todos usaron números)

```
urls.py
               views.py
                           ×
                               settings.py
ia_practiva > ia_practiva > 💠 views.py > 😭 binary_search
       from django.http import JsonResponse
      from django.views.decorators.http import require_POST
      import json
      @require_POST
      def binary_search(request):
           try:
               data = json.loads(request.body)
               array = data.get('array', [])
               target = data.get('target')
               if not isinstance(array, list) or not isinstance(target, (int, float)):
                   return JsonResponse({'error': 'Invalid input'}, status=400)
               original_array = array.copy()
               array.sort()
               left, right = 0, len(array) - 1
               found = False
               position = -1
               iterations = 0
               while left <= right:
                   iterations += 1
                   mid = (left + right) // 2
                   if array[mid] == target:
                       found = True
                       position = mid
                       break
                   elif array[mid] < target:</pre>
                       left = mid + 1
```

```
ia_practiva > ia_practiva > 💠 urls.py > ...
      URL configuration for ia_practiva project.
      The `urlpatterns` list routes URLs to views. For more information please see:
           https://docs.djangoproject.com/en/5.1/topics/http/urls/
      Examples:
      Function views
          1. Add an import: from my_app import views
           2. Add a URL to urlpatterns: path('', views.home, name='home')
      Class-based views
           1. Add an import: from other_app.views import Home
           Add a URL to urlpatterns: path('', Home.as_view(), name='home')
       Including another URLconf
           1. Import the include() function: from django.urls import include, path
           2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
      from django.contrib import admin
      from django.urls import path
      from . import views
      urlpatterns = [
           path('admin/', admin.site.urls),
           path('binary_search/', views.binary_search, name='binary_search'),
      1
 25
```

```
Django version 5.1.5, using settings 'ia_practiva.settings'
Django version 5.1.5, using settings 'ia_practiva.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
Quit the server with CTRL-BREAK.

[01/Feb/2025 08:35:45] "POST /binary_search/ HTTP/1.1" 200 171
```

