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#excller day-11(198)
import requests
from bs4 import BeautifulSoup

# Define the URL to scrape
url = 'https://example.com' # Replace with the actual URL

# Set headers to mimic a real browser request
headers = {
    'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36'
}

try:
    # Send a GET request
    response = requests.get(url, headers=headers, timeout=10)
    response.raise_for_status() # Raise an error for bad responses (4xx and 5xx)

    # Parse the page content
    soup = BeautifulSoup(response.text, 'html.parser')

    # Extract the title
    title = soup.title.string.strip() if soup.title else "No title found"
    print(f'Title of the webpage: {title}\n')

    # Extract all headings (h1 to h6)
    print("Headings found on the page:")
    for i in range(1, 7):
        headings = soup.find_all(f'h{i}')
        for heading in headings:
            print(f'H{i}: {heading.get_text(strip=True)}')

    # Extract all links
    print("\nLinks found on the page:")
    links = soup.find_all('a', href=True)
    for link in links:
        text = link.get_text(strip=True)
        href = link['href']
        print(f'{text} -> {href}')

except requests.exceptions.RequestException as e:
    print(f"Error fetching the page: {e}")
```



Title of the webpage: Example Domain

Headings found on the page:
H1: Example Domain

Links found on the page:
More information... -> <https://www.iana.org/domains/example>