

```
import requests
```

```
from bs4 import BeautifulSoup
```

```
def arxiv_search(query):
```

```
    """
```

```
    Performs a semantic search on arxiv.org for the given query.
```

```
    Args:
```

```
        query: The query to search for.
```

```
    Returns:
```

```
        A list of search results.
```

```
    """
```

```
    # Make a request to arxiv.org
```

```
    response = requests.get(
```

```
        "http://export.arxiv.org/api/query",
```

```
        params={"search_query": query, "start": 0, "max_results": 10},
```

```
    )
```

```
    # Parse the response
```

```
    soup = BeautifulSoup(response.content, "html.parser")
```

```
    # Extract the search results
```

```
    results = []
```

```
for result in soup.find_all("entry"):

    results.append(

        {

            "title": result.find("title").text,

            "author": result.find("author").text,

            "abstract": result.find("summary").text,

            "link": result.find("link")["href"],

        }

    )

return results
```

```
search = arxiv_search("quantum computing")

print(search)
```