```
!pip install faiss-cpu --no-cache
```

```
Collecting faiss-cpu
  Downloading https://files.pythonhosted.org/packages/48/0c/efd43c4feac172867409f38f07949c36602355ec7196749d10f905d09228
     |████████████████████████████████| 8.2MB 3.8MB/s
Installing collected packages: faiss-cpu
Successfully installed faiss-cpu-1.7.0
```

```
#import faiss
#import numpy as np
index = faiss.IndexFlatL2(10)
```

```
xb = np.arange(100,dtype='float32').reshape(10,10)
```

```
index.add(xb)
print(index.ntotal)
```

```
10
```

```
xq = np.arange(10,dtype='float32').reshape(1,10)
xq
```

⟶   array([[0., 1., 2., 3., 4., 5., 6., 7., 8., 9.]], dtype=float32)

```
k = 4
D,I = index.search(xq, k)
```

```
print(I)
```

```
[[0 1 2 3]]
```

✓ 0s   completed at 11:35 AM