

simple linear search

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In [1]: ls = [23,4,93,29,43,127,320]
```

```
In [2]: ele = 5000
```

```
In [3]: for i in ls:
        if i == ele:
            print(ls.index(i))
        else:
            pass
    else:
        print("not found")
```

not found

using function linear function

```
In [7]: ls = [23,4,93,29,43,127,320]
        ele = 43
```

```
In [8]: def linear_search(ls,ele):
        for i in ls:
            if i == ele:
                return ls.index(i)
            else:
                pass
        else:
            print("not found")
```

```
In [9]: linear_search(ls,ele)
```

```
Out[9]: 4
```