

```
pinakas = [10 , 20 ,30, 40, 50]
key = input(" dwse mia timi ")
```

```
first = 0
last = len(pinakas)-1
found = False
```

```
while first<=last and not found:
```

```
    mid = (first + last)/2
```

```
    print "mid= ",mid
```

```
    if pinakas[mid] == key:
```

```
        found = True
```

```
    elif key>pinakas[mid]:
```

```
        first = mid+1
```

```
    else :
```

```
        last = mid-1
```

```
print found
```

```
print "first= ",first
```

```
print "last= ",last
```

```
print "*****"
```

```
print " found =", found
```

```
# TI ΘΑ ΕΜΦΑΝΙΣΕΤΕΙ ΑΝ ΔΩΣΩ ΤΙΜΗ ΓΙΑ ΤΟ KEY 30??
```

```
# TI ΘΑ ΕΜΦΑΝΙΣΕΤΕΙ ΑΝ ΔΩΣΩ ΤΙΜΗ ΓΙΑ ΤΟ KEY 10??
```

```
# TI ΘΑ ΕΜΦΑΝΙΣΕΤΕΙ ΑΝ ΔΩΣΩ ΤΙΜΗ ΓΙΑ ΤΟ KEY 5??
```