

World's first Bug

Photo # NH 96566-KN First Computer "Bug", 1945

92

9/9

0800 Andean started
1000 " stopped - andean ✓

13°C (032) MP-MC 1.2700 9.037847025
2.130476415 (2) 4.615925059 (-2)
(033) PRO 2 2.130476415
convd 2.130676415

Relays 6-2 in 033 failed special speed test
in relay " " test.

1100 Started Cosine Tape (Sine check)
1525 Started Multy Adder Test.

1545

Relay #70 Panel F
(moth) in relay.

First actual case of bug being found.
1630/1630 arranged started.
1700 closed down.

knowing paid for 2250 10000
Whole lymphatic
and blood

NATIONAL MUSEUM of American History

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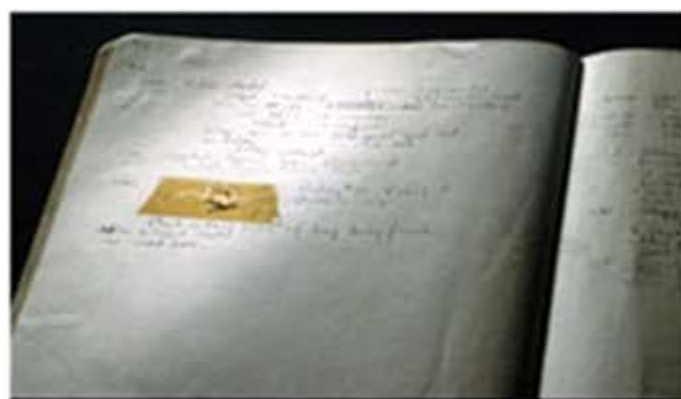
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Log Book With Computer Bug



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Harvard University found a moth stuck in one of the components. They taped the insect in their logbook and labeled it "first actual case of bug being found." The words "bug" and "debug" soon became a standard part of the language of computer programmers.

Object ID: 1994.0191.01

Subject(s): Computers & Business Machines, Military

American engineers have been calling small flaws in machines "bugs" for over a century. Thomas Edison talked about bugs in electrical circuits in the 1870s. When the first computers were built during the early 1940s, people working on them found bugs in both the hardware of the machines and in the programs that ran them.

In 1947, engineers working on the Mark II computer at

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Lists

Example with integers:

```
>>> numbers = [5, 6, 7, 8]
... print numbers[0] + numbers[2]
12
```

Example with strings:

```
>>> languages = ["Python", "Java", "C"]
... print languages[1]
Java
... print languages[0] + languages[2]
PythonC
```

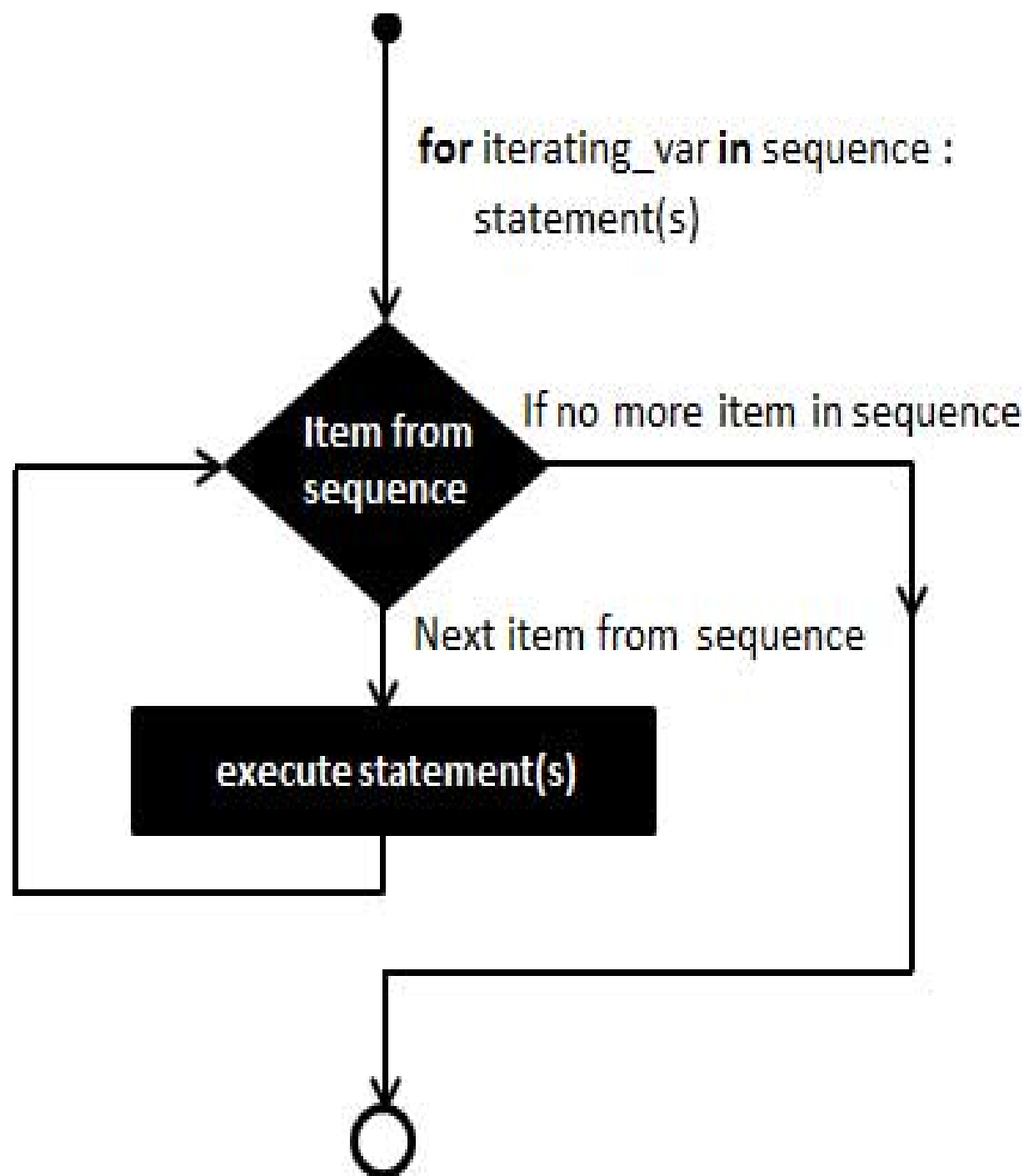
Print Formatting

Read This: <http://www.ucs.cam.ac.uk/docs/course-notes/unix-courses/PythonAB/files/formatting.pdf>

A cached version is here:

<http://compgeom.com/~piyush/teach/3502/misc/formatting.pdf>

for loop



Example: (for_ex1.py)

```
>>> for index in range(6):  
...     print index
```

```
0  
1  
2  
3  
4  
5
```


for loop

Example: (for_ex2.py)

```
>>> languages = ["Python", "Java", "C"]  
... for lang in languages :  
...     print 'Current language :', lang
```

Current language : Python

Current language : Java

Current language : C

```
>>> print languages[0]
```

Python

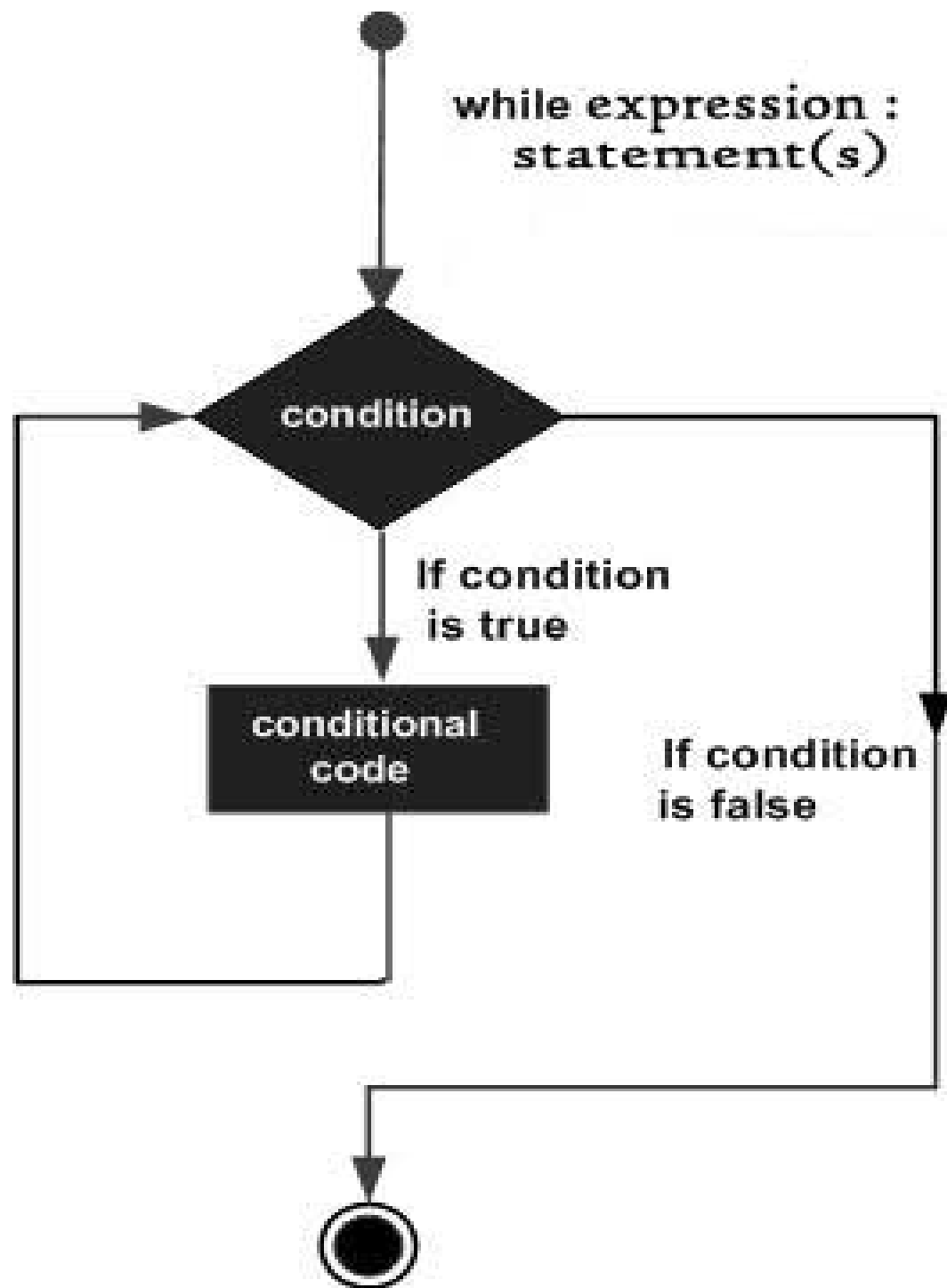
```
>>> print len(languages[1])
```

4

```
for count in range (500):  
    print "I will not throw paper airplanes in class"
```



while loop



Example: (while_ex1.py)

```
>>> i = 0
... numbers=[] #empty list
... while i < 6:
...     numbers.append(i)
...     i=i+1
... print numbers
[0, 1, 2, 3, 4, 5]
```

to be continued...