Anica Wang

Professor Eggert

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Assignment 2

*Lab 2.1*

Computing 2^3^4 fails because the value does not fit into a 64-bit signed integer. the script that checks this is

(if (< (expt 3 4) 63)

t

nil)

which returns nil

C-h k C-h k describes C-h k, the describe key. it will display documentation of the function invoked by *KEY-LIST*.

C-h k M-SPC describes the M-SPC key, which is the just-one-space key that deletes all spaces and tabs around a certain point, leaving one or N spaces. if N is negative, it deletes newlines, leaving -N spaces.

(defun just-one-space (&optional n)

"Delete all spaces and tabs around point, leaving one space (or N spaces).

If N is negative, delete newlines as well, leaving -N spaces.

See also `cycle-spacing'."

(interactive "\*p")

(cycle-spacing n nil 'single-shot))

The first call in a sequence acts like `just-one-space'.

It deletes all spaces and tabs around point, leaving one space

\(or N spaces). N is the prefix argument. If N is negative,

it deletes newlines as well, leaving -N spaces.

\(If PRESERVE-NL-BACK is non-nil, it does not delete newlines before point.)

*Lab 2.2*

M-x what-line gives you the current line number of the cursor

*Homework*

When the script is invoked on a file like /dev/null, which is an empty file, the program attempts to read from the empty file but it cannot since there is nothing to read, and so the program produces the output

Traceback (most recent call last):

File "randline.py", line 72, in <module>

main()

File "randline.py", line 66, in main

sys.stdout.write(generator.chooseline())

File "randline.py", line 36, in chooseline

return random.choice(self.lines)

File "/usr/lib64/python2.7/random.py", line 277, in choice

return seq[int(self.random() \* len(seq))] # raises IndexError if seq is empty

IndexError: list index out of range

When the script is invoked with python3, it attempts to run a python2 code using python3, and the change in version number indicates that the new python is deliberately incompatible with the old one, so the program writes a syntax error due to this incompatibility

File "/w/home.03/cs/ugrad/anica/randline.py", line 67

except IOError as (errno, strerror):

^

SyntaxError: invalid syntax