

# gameofnim

April 1, 2019

```
In [1]: import sys # for sys.exit()

def choice(sticks, user):
    print("User",str(user))
    num = int(input("How many sticks?\n"))
    if num <= 3 and num > 0:
        if int(sticks - num) <= 0:
            print("You lose @User "+str(user))
            sys.exit()
        else:
            print(str(sticks - num),"sticks remain")
            return int(sticks - num)
    else:
        print("That's not in range, try again.")
        return choice(sticks, user)

sticks = 21
while True:
    sticks = choice(sticks, 1)
    sticks = choice(sticks, 2)
```

```
User 1
How many sticks?
3
18 sticks remain
User 2
How many sticks?
3
15 sticks remain
User 1
How many sticks?
3
12 sticks remain
User 2
How many sticks?
3
9 sticks remain
```

```
User 1
How many sticks?
4
That's not in range, try again.
User 1
How many sticks?
3
6 sticks remain
User 2
How many sticks?
2
4 sticks remain
User 1
How many sticks?
2
2 sticks remain
User 2
How many sticks?
1
1 sticks remain
User 1
How many sticks?
1
You lose @User 1
```

An exception has occurred, use %tb to see the full traceback.

SystemExit

```
/Users/hayden/anaconda3/lib/python3.7/site-packages/IPython/core/interactiveshell.py:2969: UserWarning: To exit: use 'exit', 'quit', or Ctrl-D.", stacklevel=1)
```