

NAME: \_\_\_\_\_

CS21 Spring 2022, Written portion of Lab 11

Due at the start of class, Friday, April 22

Consider the following program:

```
def mystery(x):
    print(x)
    if (x == 1):
        # stack Q1
        return 1
    else:
        return x + mystery(x/2)
```

```
def main():
    n = 8
    result = mystery(n)
    print("Result: %d" % (result))
```

```
main()
```

DRAW STACK HERE

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1. Draw the stack as it appears when the program reaches the line `#stack Q1`.
2. What output is produced by the whole program?