

Consider the following function definitions

```
def y():
    """ y takes no inputs... and always returns 1
    """
    return 1

def w(x):
    """ w computes and returns thrice
        input x: any
    """
    return 3*x

def t(x):
    """ t computes thrice its input plus one
        input x: any number (int or float)
    """
    return 3*x + 1

def r(x,y):
    """ r shows some less-common arithmetic operators
        input x: any number (int or float)
        input y: any number (int or float, more likely int)
    """
    return ( x**2 % y ) + 2

def f(a,b):
    """ f demonstrates the use of conditionals (if/elif/else)
        input a: any number (int or float)
        input b: any number (int or float)
    """
    if a < b:
        return (b-1) * (b-2)
    else:
        return (a+4) * (b+4)

def m(s):
    """ m returns the string reconstructed
        Input s: any string
    """
    c = len(s)
    if c < 2:
        return s
    elif c == 2:
        return s[1] + s[0]
    else:
        c = (c - 1) // 2
        return s[c] + s[0:c] + s[c+1:]
```

Write down answers to the following questions

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|---------------------------------|-----------------------------------|
| I. What is the value of $y()$? | VII. What is $f(t(y()),r(8,5))$? |
| II. What is $w(3)$? | VIII. What is $m('1234')$? |
| III. What is $w('ab')$? | IX. What is $m('1')$? |
| IV. What is $t(3)$? | X. What is $m('123')$? |
| V. What is $r(7,8)$? | |
| VI. What is $f(0,0)$? | |