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1: import random
2: guesses_made = 0
3: name = raw_input('Hello! What is your name?\n')
4: number = random.randint(1, 20)
5: print 'Well, {name}, I am thinking of a number between 1 and 20.'.format(name=name)
6: while guesses_made < 6:
7:
8:     guess = int(raw_input('Take a guess: '))
9:     guesses_made += 1
10:    if guess < number:
11:        print 'Your guess is too low.'
12:    if guess > number:
13:        print 'Your guess is too high.'
14:    if guess == number:
15:        break
16: if guess == number:
17:     print 'Good job, {name}! You guessed my number in {guesses} guesses!'.format(name=name, guesses=guesses_made)
18: else:
19:     print 'Nope. The number I was thinking of was {number}'.format(number=number)

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1	0	LOAD_CONST	0 (-1)
	3	LOAD_CONST	1 (None)
	6	IMPORT_NAME	0 (random)
	9	STORE_NAME	0 (random)
3	12	LOAD_CONST	2 (0)
	15	STORE_NAME	1 (guesses_made)
5	18	LOAD_NAME	2 (raw_input)
	21	LOAD_CONST	3 ('Hello! What is your name?\n')
	24	CALL_FUNCTION	1
	27	STORE_NAME	3 (name)
7	30	LOAD_NAME	0 (random)
	33	LOAD_ATTR	4 (randint)
	36	LOAD_CONST	4 (1)
	39	LOAD_CONST	5 (20)
	42	CALL_FUNCTION	2
	45	STORE_NAME	5 (number)
8	48	LOAD_CONST	6 ('Well, {name}, I am thinking of a number between 1 and 20.')
	51	LOAD_ATTR	6 (format)
	54	LOAD_CONST	7 ('name')
	57	LOAD_NAME	3 (name)
	60	CALL_FUNCTION	256
	63	PRINT_ITEM	
	64	PRINT_NEWLINE	
10	65	SETUP_LOOP	100 (to 168)
>>	68	LOAD_NAME	1 (guesses_made)
	71	LOAD_CONST	8 (6)
	74	COMPARE_OP	0 (<)
	77	POP_JUMP_IF_FALSE	167
12	80	LOAD_NAME	7 (int)
	83	LOAD_NAME	2 (raw_input)
	86	LOAD_CONST	9 ('Take a guess: ')
	89	CALL_FUNCTION	1
	92	CALL_FUNCTION	1
	95	STORE_NAME	8 (guess)
14	98	LOAD_NAME	1 (guesses_made)
	101	LOAD_CONST	4 (1)
	104	INPLACE_ADD	
	105	STORE_NAME	1 (guesses_made)
16	108	LOAD_NAME	8 (guess)
	111	LOAD_NAME	5 (number)
	114	COMPARE_OP	0 (<)
	117	POP_JUMP_IF_FALSE	128
17	120	LOAD_CONST	10 ('Your guess is too low.')
	123	PRINT_ITEM	
	124	PRINT_NEWLINE	
	125	JUMP_FORWARD	0 (to 128)
19	>>	128	LOAD_NAME
		131	LOAD_NAME
		134	COMPARE_OP
		137	POP_JUMP_IF_FALSE
20		140	LOAD_CONST
		143	PRINT_ITEM
		144	PRINT_NEWLINE
		145	JUMP_FORWARD
22	>>	148	LOAD_NAME
		151	LOAD_NAME
		154	COMPARE_OP
		157	POP_JUMP_IF_FALSE
23		160	BREAK_LOOP
		161	JUMP_ABSOLUTE
		164	JUMP_ABSOLUTE

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25    >> 167 POP_BLOCK
    >> 168 LOAD_NAME          8 (guess)
    171 LOAD_NAME          5 (number)
    174 COMPARE_OP          2 (==)
    177 POP_JUMP_IF_FALSE 206
26    180 LOAD_CONST          12 ('Good job, {name}! You guessed my number in {guesses} guesses!')
    183 LOAD_ATTR            6 (format)
    186 LOAD_CONST          7 ('name')
    189 LOAD_NAME            3 (name)
    192 LOAD_CONST          13 ('guesses')
    195 LOAD_NAME            1 (guesses_made)
    198 CALL_FUNCTION        512
    201 PRINT_ITEM
    202 PRINT_NEWLINE
    203 JUMP_FORWARD          17 (to 223)
28    >> 206 LOAD_CONST          14 ('Nope. The number I was thinking of was {number}'))
    209 LOAD_ATTR            6 (format)
    212 LOAD_CONST          15 ('number')
    215 LOAD_NAME            5 (number)
    218 CALL_FUNCTION        256
    221 PRINT_ITEM
    222 PRINT_NEWLINE
    >> 223 LOAD_CONST          1 (None)
    226 RETURN_VALUE

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