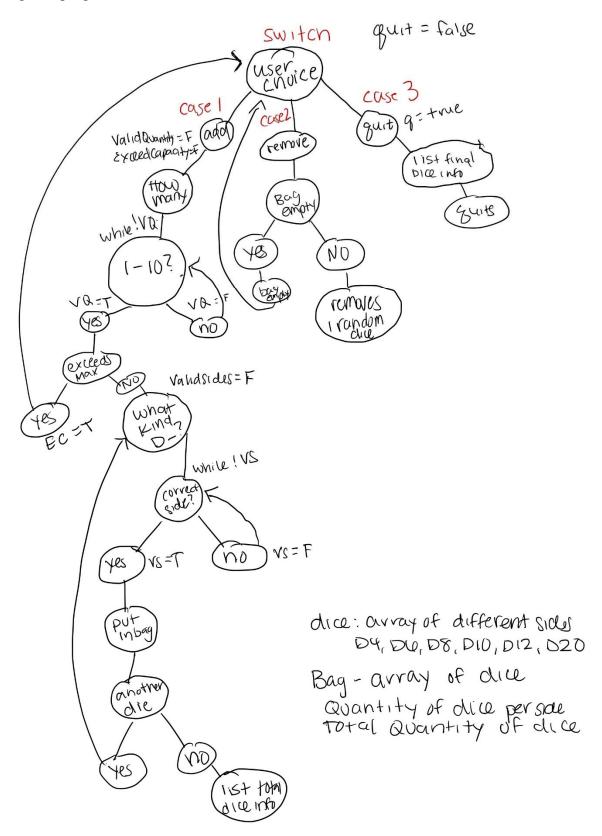
## Design for program



## Tests:

Can you only choose one of the cases (+,-,q)?

```
Would you like to add (+) dice to the bag, remove a (-) die from the bag, or quit (q)? 2 Invalid choice. Please choose '+' to add, '-' to remove, or 'q' to quit.
```

Does reaching max capacity bring me to the original question?

```
Contents of bag:
10 D4
Total dice in bag:10

Would you like to add (+) dice to the bag, remove a (-) die from the bag, or quit (q)? +
Please enter quantity of dice to add (up to 10): 2

This exceeds the max capacity of the bag. Please try a different option.

Contents of bag:
10 D4
Total dice in bag:10

Would you like to add (+) dice to the bag, remove a (-) die from the bag, or quit (q)?
```

Does it loop until I choose a valid quantity (1-10)?

```
Please enter quantity of dice to add (up to 10): 11

Invalid quantity. Please enter a quantity between 1 and 10.

Please enter quantity of dice to add (up to 10): [
```

Does it loop until a valid side is chosen?

```
Would you like to add (+) dice to the bag, remove a (-) die from the bag, or quit (q)? + Please enter quantity of dice to add (up to 10): 1
Enter number of sides for dice 1 (4, 6, 8, 10, 12, or 20): -5
Invalid number of sides. Please try again.
Enter number of sides for dice 1 (4, 6, 8, 10, 12, or 20): 3
Invalid number of sides for dice 1 (4, 6, 8, 10, 12, or 20): 100
Invalid number of sides. Please try again.
Enter number of sides for dice 1 (4, 6, 8, 10, 12, or 20): 1
Invalid number of sides. Please try again.
Enter number of sides for dice 1 (4, 6, 8, 10, 12, or 20): 4

Contents of bag:
11 D4
Total dice in bag:11
```

Will it only remove a dice that's in the bag?

```
Contents of bag:
1 D4
1 D6
1 D8
1 D12
1 D20
Total dice in bag:5
Would you like to add (+) dice to the bag, remove a (-) die from the bag, or quit (q)? -
You drew a D20.
Contents of bag:
1 D4
1 D6
1 D8
1 D12
Total dice in bag:4
Would you like to add (+) dice to the bag, remove a (-) die from the bag, or quit (q)? -
You drew a D8.
Contents of bag:
1 D4
1 D6
1 D12
Total dice in bag:3
Would you like to add (+) dice to the bag, remove a (-) die from the bag, or quit (q)? ■
```

Repeated this one several times and it would only remove what is in the bag.