Language: Python 3

J1 - 15/15

```
normal = int(input())
small = int(input())
total = (normal * 8) + (small*3)
print(total - 28)
```

Could just do: `print(int(input())*8 + int(input())*3 - 28)`

J2 - 15/15

```
total_players = 0
gold_players = 0

for i in range (int(input())):
    points = int(input())
    fouls = int(input())
    total_players+=1
    if (points*5) - (fouls*3) > 40:
        gold_players+=1
if gold_players == total_players:
    print(str(gold_players) + "+")
else:
    print(str(gold_players))
'''
test 1

3
12
4
10
3
9
1

test 2

2
8
0
12
1

'''
```

J3 - 15/15

```
instructions = input()

counter = 0
actions = []
action = ""
numbers = ["0", "1", "2", "3", "4", "5", "6", "7", "8", "9"]

for i in range (len(instructions)):
    if instructions[i] in numbers:
        counter+=1
        action+=instructions[i]
    elif instructions[i] not in numbers and counter > 0:
        counter = 0
        actions.append(action)
        action = ""
        action+=instructions[i]
    else:
        action+=instructions[i]

    if i == len(instructions)-1:
        actions.append(action)

for i in range (len(actions)):
    if "+" in actions[i]:
        a = actions[i].split("+")
        print(a[0] + " tighten " + a[1])
    else:
        a = actions[i].split("-")
        print(a[0] + " loosen " + a[1])
```

J4 - 4/15

```
violations = 0
```

```
good_list = []
bad_list = []
groups_list = []

allowed = int(input())

for i in range (allowed):
    a = []
    a = input().split()
    good_list.append(a)

not_allowed = int(input())

for i in range (not_allowed):
    a = []
    a = input().split()
    bad_list.append(a)

groups = int(input())

for i in range (groups):
    a = []
    a = input().split()
    groups_list.append(a)

for i in range (len(groups_list)):
    for j in range (len(good_list)):
        if good_list[j][0] in groups_list[i] and good_list[j][1] not in
groups_list[i] or good_list[j][1] in groups_list[i] and good_list[j][0]
not in groups_list[i]:
            violations+=1
    for j in range (len(bad_list)):
        if bad_list[j][0] and bad_list[j][1] in groups_list[i]:
            violations+=1
print(violations//2)
```

S1 - 15/15

```
columns = int(input())
row1 = input().split()
row2 = input().split()

for i in range(columns):
    row1[i] = int(row1[i])
    row2[i] = int(row2[i])

length = 0

if columns%2==0:
        if row1[-1] == 1:
            if row1[-2] == 1:
                length+=1
            else:
                length+=3

        if row2[-1] == 1:
            if row2[-2] == 1:
                length+=1
            else:
                length+=3

        row1.pop(-1)
        row2.pop(-1)
        columns-=1

if columns == 1:
    if row1[0] == row2[0] == 1:
        length+=4
    if row1[0] != row2[0]:
        length += 3

if columns > 2:
    #top left tile
    if row1[0] == 1:
        surrounding = row1[1] + row2[0]
        #print(surrounding)
        length+=3-surrounding

    #bottom left tile
    if row2[0] == 1:
        surrounding = row2[1] + row1[0]
        #print(surrounding)
        length+=3-surrounding
```

```
    #bottom right tile
    if row1[-1] == 1:
        surrounding = row2[-1] + row1[-2]
        #print(surrounding)
        length+=3-surrounding

    #bottom left tile
    if row2[-1] == 1:
        surrounding = row1[-1] + row2[-2]
        #print(surrounding)
        length+=3-surrounding

    for i in range(1, len(row1)-1):
        if i%2 == 0:
            surrounding = row2[i] + row1[i-1] + row1[i+1]
            if row1[i] == 1:
                #print(surrounding)
                length+=3-surrounding
        else:
            surrounding = int(row1[i-1]) + int(row1[i+1])
            if row1[i] == 1:
                #print(surrounding)
                length+=3-surrounding

    for i in range(1, len(row2)-1):
        if i%2 == 0:
            if row2[i] == 1:
                surrounding = int(row1[i]) + int(row2[i-1]) +
int(row2[i+1])
                #print(surrounding)
                length+=3-surrounding
        else:
            if row2[i] == 1:
                surrounding = int(row2[i-1]) + int(row2[i+1])
                #print(surrounding)
                length+=3-surrounding

print(length)
```

S2 - 0/15

```
mountains = int(input())
mountain_heights = input().split()

asymmetric_values = [0]

for i in range(mountains):
    mountain_heights[i] = int(mountain_heights[i])

for picture in range(2, mountains+1):
    for frames in range(mountains+1 - picture):
        left = frames
        right = frames +picture

        frame = mountain_heights[left:right]

        asymmetric_value=abs(frame[0]-frame[-1])
        if frames == 0:
            prev_val = asymmetric_value
        for i in range(1, len(frame)//2):
            asymmetric_value+=abs(frame[i]-frame[(-1*i)-1])
        if asymmetric_value < prev_val:
            prev_val = asymmetric_value
    asymmetric_values.append(prev_val)
    asymmetric_values[-1] = asymmetric_value

for i in asymmetric_values:
    print(str(i).rstrip())
```