1. Fill in the necessary code to build the list ages

```
ages = [] #creates an empty list
for age in [20, 21, 20, 22, 19, 18, 14, 35]:

print ages

The output should be [20, 21, 20, 22, 19, 18, 14, 35]
(Hint: x.append(2) appends the number 2 to the end of list x)
```

2. Write a function, over_twenty() to count the number of people over 20 years old in the list ages.

3. Write the output to the following problem:

```
grid = [[1, 2, 3], ['a', 'b', 'c'], ['c', 's', 'e'], [1, 4, 0]]
print grid[0][0]
print grid[1][2]
print grid[2][1]
print grid[3][2]
```

4. Modify the following code so that it properly adds 5 to everyone's age

```
ages = [20, 21, 20, 22, 19, 18, 14, 35]
for i in ages:
        ages[i] + 5
print ages
```

print ages should now return [25, 26, 25, 27, 24, 23, 19, 40]

5. Write a function that calculates and returns the average of ages. You are not allowed to use python's built-in sum() function. Your function should take in the list ages as a parameter and return the average.

6. Given a function get_height that computes the height of the student passed in, write a new function max_height that finds the maximum height of all the people in the class. Your function should take in a list of student names and return the maximum height. You can assume height is in inches and that the list of all students in the class is class_lst.

get_height('sasha') will return 64

What is the type of max_height(students)?

Suppose the code was modified to print max_height instead of return max_height, what would be the type of max_height(students)?

```
1.
        ages = [] #creates an empty list
        for age in [20, 21, 20, 22, 19, 18, 14, 35]:
                ages.append(age)
        print ages
2.
        def over_twenty(ages):
                total = 0
                for age in ages:
                        if age > 20:
                                total = total + 1
                return total
3.
        1
        С
        s
        0
4.
        ages = [20, 21, 20, 22, 19, 18, 14, 35]
        for i in range(len(ages)):
                ages[i] = ages[i] + 5
        print ages
5.
        def avg_age(ages):
                total = 0
                for age in ages:
                        total = total + age
                avg = float(total)/len(ages)
                return avg
6.
        def max_height(class_lst):
                max\_height = 0
                for student in class_lst:
                        student height = get height(student)
                        if(student_height > max_height):
                                 max_height = student_height
                return max_height
        Type when returning: Int
        Type when printing: None
```