Instructions:
Please answer the questions below. This is an assessment so no materials or help from others is allowed.

Problem 1. (20 points) Consider the following Python expressions. Give the type and value returned by the following statements (1 point for correct type and 1 for correct value):

(a) 6 *Int*
   6

(b) 12+5 *Int*
   17

(c) [1,2,"a",4] . ~~conca..~~ *List*
   [1,2,"a",4]

(d) 1.5*3
   float 4.5

(e) "10"+"text" *Str*
   "10text"

(f) True and False
   Bool
   False

(g) 1 > 6 and 1 == (2 − 1)
   Bool
   False

(h) str(8)
   Str"8"

(i) 1//3.0 *Int*
   0

(j) [1,2,"a",4][1]
   Int 2

Problem 2. (10 points) Write the output of the following code:

```
x = 5
if 3 > x:
    x = 10

print(x)
```
x = 5

Problem 3. (10 points) Write the output of the following code:

```
i = 8
mem = "feeb daed"

while i >= 0:
    print(mem[i])
    i = i - 1

print("end")
```

i

i	*output*	
8	*mem[8] →*	*d*
7	*mem[7] →*	*e*
6	*mem[6] →*	*a*
5	*mem[5] →*	*d*
4	*mem[4] →*	
3	*mem[3] →*	*b*
2	*mem[2] →*	*e*
1	*mem[1] →*	*e*
0	*mem[0] →*	*f*
		end