

Lab 3

May 30, 2024

Dylan Liesenfelt

1 Section

```
[ ]: print('DDDD    Y    Y L    AAAAAA N  N')
      print('D  D    Y    Y L    A    A NN  N')
      print('D    D    Y    L    AAAAAA N N N')
      print('D  D    Y    L    A    A  N  NN')
      print('DDDD        Y    LLLLL A    A  N  N')
```

```
DDDD    Y    Y L    AAAAAA N  N
D  D    Y    Y L    A    A NN  N
D    D    Y    L    AAAAAA N N N
D  D    Y    L    A    A  N  NN
DDDD        Y    LLLLL A    A  N  N
```

2 Section

```
[ ]: print('D'*4)
      print('D'+ ' ' * 3 + 'D')
      print('D'+ ' ' * 4 + 'D')
      print('D'+ ' ' * 3 + 'D')
      print('D'*4)
```

```
DDDD
D  D
D    D
D  D
DDDD
```

3 Section

```
[ ]: n=[' ' + list("DYLAN")
      print(n[1] * 4)
      print(n[1] + n[0] * 3 + n[1])
      print(n[1] + n[0] * 4 + n[1])
      print(n[1] + n[0] * 3 + n[1])
```

```
print(n[1] * 4)
```

```
DDDD
D  D
D   D
D  D
DDDD
```

4 Section

```
[ ]: l1 = []
l1.append(n[1] * 4 + '\n')
l1.append(n[1] + n[0] * 3 + n[1] + '\n')
l1.append(n[1] + n[0] * 4 + n[1] + '\n')
l1.append(n[1] + n[0] * 3 + n[1] + '\n')
l1.append(n[1] * 4)
```

```
[ ]: print(''.join(l1))
```

```
DDDD
D  D
D   D
D  D
DDDD
```

5 Section

```
[ ]: #D
d1 = n[1] * 4 + n[0] * 3
d2 = n[1] + n[0] * 3 + n[1] * 2 + n[0]
d3 = n[1] + n[0] * 5 + n[1]

#Y
y1 = n[2] + n[0] * 5 + n[2]
y2 = n[0] + n[2] + n[0] * 3 + n[2] + n[0]
y3 = n[0] * 3 + n[2] + n[0] * 3

#L
l1 = n[3] + n[0] * 6
l2 = n[3] * 7

#A
a1 = n[4] * 7
a2 = n[4] + n[0] * 5 + n[4]

#N
n1 = n[5] * 2 + n[0] * 4 + n[5]
```

```

n2 = n[5] + n[0] + n[5] + n[0] * 3 + n[5]
n3 = n[5] + n[0] * 2 + n[5] + n[0] * 2 + n[5]
n4 = n[5] + n[0] * 3 + n[5] + n[0] + n[5]
n5 = n[5] + n[0] * 4 + n[5] * 2

```

```

#lines

```

```

line1 = [d1,y1,l1,a1,n1]
line2 = [d2,y2,l1,a2,n2]
line3 = [d3,y3,l1,a1,n3]
line4 = [d2,y3,l1,a2,n4]
line5 = [d1,y3,l2,a2,n5]

```

```

s1 = (n[0]*4).join(line1)
s2 = (n[0]*4).join(line2)
s3 = (n[0]*4).join(line3)
s4 = (n[0]*4).join(line4)
s5 = (n[0]*4).join(line5)

```

```

s = [s1,s2,s3,s4,s5]

```

```

print('\n'.join(s))

```

```

DDDD      Y      Y      L      AAAAAAA      NN      N
D   DD      Y      Y      L      A      A      N N      N
D      D      Y      L      AAAAAAA      N N      N
D   DD      Y      L      A      A      N      N N
DDDD      Y      LLLLLLL A      A      N      NN

```