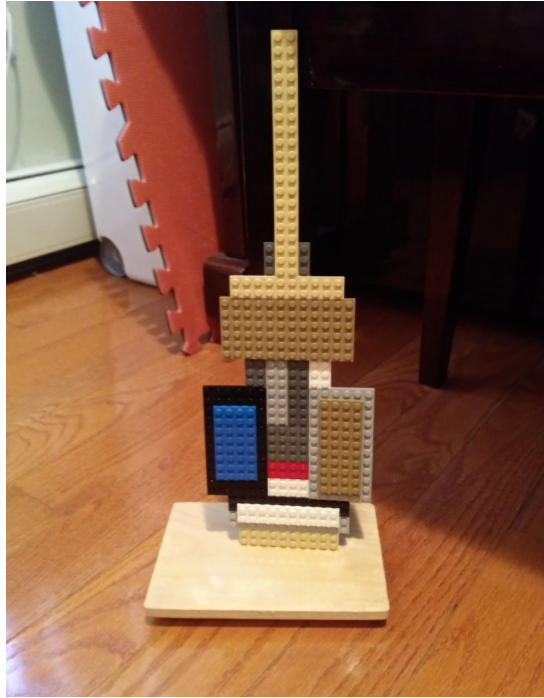


Write It, Do It Test  
Written by Jonathan Jiang

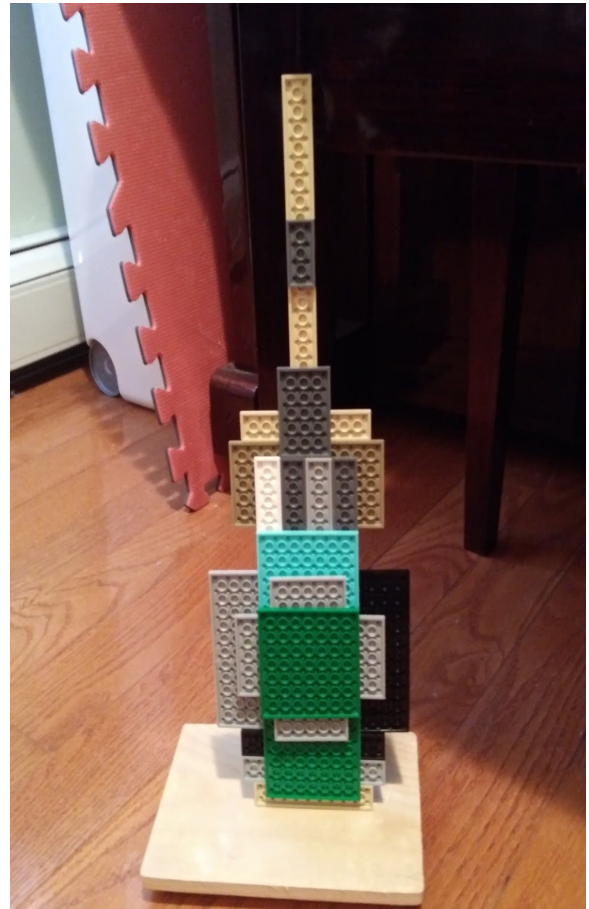
Front View



Side View



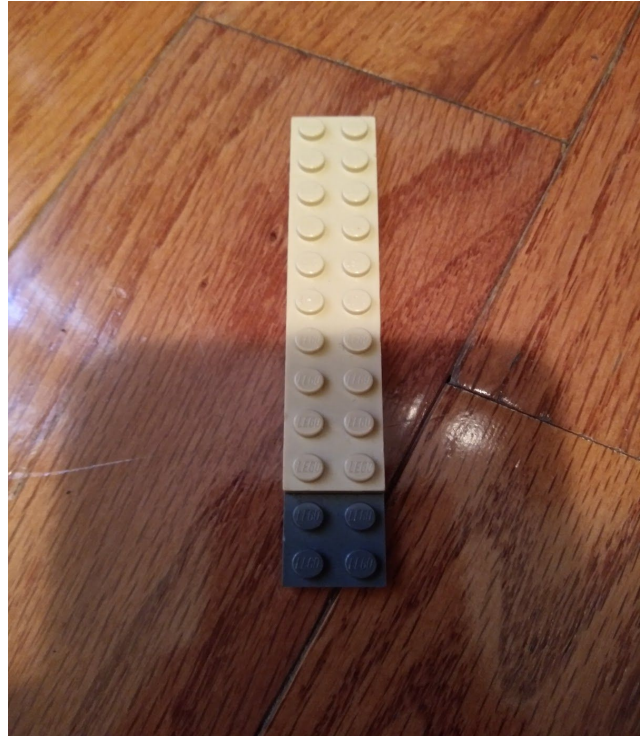
Back View



The picture to the right shows an example of a later term which is downward. The gray lego is downward to the black lego. Another term is the parenthesis and the numbers in it. The first number represents the rows, which is the horizontal part of the lego and the second number is the vertical part of the lego. For example the black lego to the right is (12x2) since it has 12 tiles for rows and 2 tiles for columns.



This picture shows an example of what a Underneath lego looks like. The gray lego is directly underneath the beige lego.



## Materials

- 1 wooden board ( 17 cm x 12 cm)
- 3 beige legos ( 10x2)
- 2 beige legos( 2x10)
- 1 dark gray lego( 2x4)
- 1 dark gray lego( 4x6)

- 1 dark gray lego ( 2x8)
- 1 light brown lego ( 12x6)
- 1 dark gray lego ( 2x12)
- 1 gray lego ( 2x12)
- 1 white lego( 2x8)
- 1 black lego (6x12)
- 1 dark blue lego( 4x8)
- 1 dark gray lego ( 4x4)
- 1 dark red lego( 4x2)
- 1 white lego( 4x2)
- 1 white lego( 2x10)
- 1 black lego( 12x2)
- 1 gray lego( 12x2)
- 3 beige legos( 10x2)
- 1 turquoise lego( 8x6)
- 2 gray legoes( 12x6)
- 2 green legos( 8x8)

1) Wooden Board

- a) \_\_\_\_ Upside down
- b) Total: \_\_\_\_/1

2) 1 green lego (8x8): Referred as Green lego 8x8 A in later instructions

- a) \_\_\_\_ It is on the bottom of the lego structure A
- b) Total: \_\_\_\_/1

3) 1 gray lego (6x12)

- a) \_\_\_\_ On top of green 8x8
- b) \_\_\_\_ Centered
- c) Total: \_\_\_\_/2

4) 1 gray lego( 12x6)

- a) \_\_\_\_ On top of gray lego (6x12)
- b) \_\_\_\_ Centered
- c) Total: \_\_\_\_/2

5) 1 green lego( 8x8) : Referred as Green Lego 8x8 B in later instructions

- a) \_\_\_\_ placed on the bottom half of Gray lego (6x12) remaining 6x3's
- b) Total: \_\_\_\_/1

6) 1 red lego( 4x2)

- a) \_\_\_\_ Placed in the middle of the edges of gray 12x6 and Green 8x8 B
- b) Total: \_\_\_\_/1

7) 1 gray lego ( 4x4)

a) \_\_\_ Placed directly above red 4x2, on the gray 12x6

b) Total: \_\_\_/1

8) 1 white lego( 4x2)

a) \_\_\_ Placed directly downward from red lego(4x2)

b) Total: \_\_\_/1

9) 1 black lego( 12x2)

a) \_\_\_ Placed directly downward from white lego( 4x2)

b) Total: \_\_\_/1

10) 1 gray lego(12x2)

a) \_\_\_ Placed downward from black lego (12x2)

b) \_\_\_ Centered

c) Total: \_\_\_/2

11) 1 white lego(10x2)

a) \_\_\_ Placed on top of the edges of black lego(12x2) and gray lego(12x2)

b) \_\_\_ Centered

c) Total: \_\_\_/2

12) 1 beige lego(10x2)

a) \_\_\_ Placed on green lego 8x8 B's last row

b) \_\_\_ Centered

c) Total: \_\_\_/2

13) 1 turquoise lego( 8x6)

a) \_\_\_ On the bottom of Lego Structure B

b) Total: \_\_\_/1

14) 1 white lego (2x8)

a) \_\_\_ Placed on the top right corners of turquoise lego (8x6)

b) \_\_\_ Placed on only the 2x3 space in the top right corner

c) \_\_\_ Extends 5 spaces upward from turquoise lego 8x6

d) Total: \_\_\_/ 4

15) 1 gray lego ( 2x12)

a) \_\_\_ Placed directly to the left of white (2x8)

b) \_\_\_ Extends 1 space below turquoise lego 8x6

c) \_\_\_ Extends 5 spaces above turquoise lego 8x6

d) Total: \_\_\_/3

16) 1 Dark gray lego ( 2x12)

- a) Directly to the left of gray lego (2x12)
- b) Extends 1 space below turquoise lego (8x6)
- c) Extends 5 spaces above turquoise lego(8x6)
- d) Total: \_\_\_/3

17) 1 Dark gray lego ( 2x8)

- a) \_\_\_ Directly to the left of dark gray lego (2x12)
- b) \_\_\_ Extends five tiles above turquoise lego (8x6)
- c) Total: \_\_\_/2

18) 1 Black lego (6x12)

- a) \_\_\_ On bottom of Lego structure C
- b) Total: \_\_\_/1

19) 1 blue lego( 4x8)

- a) \_\_\_ Placed in the middle of black 6x12
- b) \_\_\_ Centered
- c) Total: \_\_\_/2

20) 1 gray lego( 6x12)

- a) \_\_\_ On bottom of Lego Structure D
- b) Total: \_\_\_/1

21) 1 brown lego( 4x10)

- a) \_\_\_ Placed in middle of gray lego(6x12)
- b) \_\_\_ Centered
- c) Total: \_\_\_/2

22) 1 Brown lego(12x6)

- a) \_\_\_ Placed on top of dark gray lego 2x8, dark gray lego 2x12, gray lego 2x12, and white lego 2x8 from structure B
- b) \_\_\_ Placed on first five rows of all legos mentioned in the list before
- c) \_\_\_ Centered
- d) Total: \_\_\_/3

23) 1 Dark gray lego(4x6)

- a) \_\_\_ Placed underneath Brown lego 12x6's first row( Which is the last and remaining row)
- b) \_\_\_ Centered
- c) Total: \_\_\_/2

24) 1 beige lego( 10x2) :Referred as Beige Lego 10x2 A in later instructions

- a) \_\_\_ Placed on top of gray lego( 4x6)

- b) \_\_\_\_ Only placed on the first two columns of gray lego (4x6)
- c) \_\_\_\_ 8 tiles sticking out( To the left)
- d) \_\_\_\_ Placed on the last row of gray lego( 4x6)
- e) Total: \_\_\_\_/4

25) 1 beige lego( 10x2): Referred as Beige Lego 10x2 B in later instructions

- a) \_\_\_\_ Placed on the top of gray lego(4x6)
- b) \_\_\_\_ Only placed on the third and fourth columns
- c) \_\_\_\_ 8 tiles sticking out right
- d) \_\_\_\_ Placed on the last row of gray lego( 4x6)
- e) Total: \_\_\_\_/4

26) 1 beige lego (2x10) : Referred as Beige Lego 2x10 C in later instructions

- a) \_\_\_\_ Placed on top of gray lego( 4x6)
- b) \_\_\_\_ Occupies second and third columns of gray lego(4x6)
- c) \_\_\_\_ Occupies first, second, and third rows of gray lego(4x6)
- d) \_\_\_\_ 7 tiles stick out( Upward)
- e) Total: \_\_\_\_/4

27) 1 Dark gray lego (2x4)

- a) \_\_\_\_ 2 tiles underneath beige lego 2x10 C
- b) \_\_\_\_ Occupies both columns of beige lego 2x10 C
- c) Total: \_\_\_\_/2

28) 1 beige lego (2x10) : Referred as Beige Lego 2x10 D

- a) \_\_\_\_ Occupies 2 columns of dark gray( 2x4)
- b) \_\_\_\_ Sticks out 8 tiles( Upward)
- c) Total: \_\_\_\_/2

Final Assembly:

- a) \_\_\_\_ Lego Structure B is on top of Lego structure A
- b) \_\_\_\_ Lego Structure B's last row is on top of structure A's gray lego (12x6) 's first row
- c) \_\_\_\_ Lego structure B is centered on Lego Structure A
- d) \_\_\_\_ Lego Structure C is on the left opening of the lego structure, directly on the of the open space for turquoise lego (8x6), gray lego( 6x12), and green lego( 8x8)
- e) \_\_\_\_ Lego Structure C is centered
- f) \_\_\_\_ Lego structure D is on the right opening of the lego structure , directly on the of the open space for turquoise lego (8x6), gray lego( 6x12), and green lego( 8x8)
- g) \_\_\_\_ Lego Structure D is centered
- h) Total: \_\_\_\_/7

Final Score: \_\_\_\_/66

