```
# By submitting this assignment, I agree to the following:
# "Aggies do not lie, cheat, or steal, or tolerate those who do."
# "I have not given or received any unauthorized aid on this assignment."
# Names: Lauren Wiley
#
          Michelle Brown
#
          Xander Scislowski
          Saira Khan
# Section:
             462
# Assignment: Lab 2a Activity 1
# Date:
            9 September 2021
#
#
```

Procedure

- 1. Start with piece J and attach piece A to the left of piece J
- 2. Using Bolts M6x2.7" and an Allen key, screw two bolts piece A into piece J
- 3. Next, take piece H and attach it to piece A (3rd hole from the top) using one bolt M6x2.7"
- 4. Take piece I and attach it to piece A (fourth hole from the top) using one M6x2.7" bolt
- 5. Repeat steps 1-4 but use piece B instead of piece A creating the left headboard
- 6. Then take piece G and using four M6x1" bolts, screw it to the top of piece J
- 7. For the right headboard, take piece J and screw it into the top 2 holes of piece C with M6x2.7" bolts
- 8. Then screw piece J into piece D with two M6x2.7" bolts
- 9. Next, attach pice G to piece J with four M6x1" bolts
- 10. Take piece both piece N's (left and right) and screw piece K to them using 4 M6x1" bolts
- 11. Then screw piece L to the N pieces (second hole from the top) using 2 M6x1" bolts
- 12. Screw piece M to piece N (1st hole from the top) using 2 M6x1" bolts, creating the frontside
- 13. Taking the next 3 pieces N, screw piece P to them (hole 3 and 4 from the top) using 6 M6x1" bolts (right N, left N, and middle N)
- 14. Attach piece Q to all three N pieces (2nd hole from the top) using 3 M6x1" bolts
- 15. Attach piece R to the top holes of the three N pieces using 3 M6x1" bolts
- 16. Next screw one-piece T to the top hole of the right headboard (legs C and D) using the combination of 1 flat washer below 1 washer through an M6x2.7" bolt for both holes
- 17. Then attach piece U (the shelf with the hole facing outwards on the long side) to the right headboard (2nd hole from the top) using the same combination (1 flat washer stacked below 1 washer and an M6x2.7" bolt) twice
- 18. Repeat step 16 for the last two shelves for the right headboard
- 19. Attach piece F to shelf T (top) using a flat washer stacked below a washer with an M6x2.7" bolt
- 20. Attach piece F to shelf U using a flat washer stacked below a washer with an M6x2.7" bolt

- 21. Attach piece F to shelf T (third from the top) using a flat washer stacked below a washer with an M6x2.7" bolt
- 22. Attach piece F to shelf T (bottom) using a flat washer stacked below a washer with an M6x2.7" bolt
- 23. Attach piece E to shelf T (top) using a flat washer stacked below a washer with an M6x2.7" bolt
- 24. Attach piece E to shelf U using a flat washer stacked below a washer with an M6x2.7" bolt
- 25. Attach piece E to shelf T (third from the top) using a flat washer stacked below a washer with an M6x2.7" bolt
- 26. Attach piece E to shelf T (bottom) using a flat washer stacked below a washer with an M6x2.7" bolt
- 27. Next, attach the front side to the left headboard connecting the positive part of the metal bowl of K to the negative part of the metal bowl of the leg using 2 M6x0.5" bolts
- 28. Attach the front side to the right headboard by connecting the positive part of the metal bowl of K to the negative part of the metal bowl of the leg using 2 M6x0.5"
- 29. Then attach the backside to the left headboard connecting the positive part of the metal bowl of K to the negative part of the metal bowl of the other leg using 2 M6x0.5" bolts
- 30. And attach the backside to the right headboard connecting the positive part of the metal bowl of K to the negative part of the metal bowl of the other leg using 2 M6x0.5" bolts
- 31. Using M6x1" bolts attach piece S to the inside legs of the right and left headboard under the backside
- 32. Then screw piece V to the inside legs of the right and left headboard under piece S using one M6x1" bolt on both sides
- 33. Screw one 4x0.8" screw into the hole connecting the front side to the left headboard
- 34. Screw one 4x0.8" screw into the hole connecting the backside to the left headboard
- 35. Screw one 4x0.8" screw into the hole connecting the backside to the right headboard
- 36. Screw two M6x1" bolts front legs on the right side
- 37. Screw two M6x1" bolts to the back legs on the right side
- 38. Attach piece S to shelf U with a flat washer below a washer and an M6x1.2" bolt
- 39. Attach piece S to piece H with a flat washer below a washer and an M6x1.2" bolt
- 40. Slide piece Y (center rail) into the middle metal piece of the right and left headboard
- 41. Lay piece W (bed slats) on top of center rail (piece Y)
- 42. Screw 1 4x1.2" in piece W attaching it to the left front piece
- 43. Screw 1 4x1.2" in piece W attaching it to the left back piece
- 44. Screw 1 4x1.2" in piece W attaching it to the middle front piece
- 45. Screw 1 4x1.2" in piece W attaching it to the middle back piece
- 46. Screw 1 4x1.2" in piece W attaching it to the right front piece
- 47. Screw 1 4x1.2" in piece W attaching it to the right back piece

Variables

- A: leg_a
- B: leg_b
- C: leg_c
- D: leg_d
- E: shelf_leg_e
- F: shelf_leg_f
- G: left headboard top
- G: right_headboard_top
- H: board_1
- I: board 2
- J: left_headboard
- J: right_headboard
- K: backside_board_four
- L: backside_board_five
- M: backside_board_six
- N: support_board
- P: backside_board_one
- Q: backside_board_two
- R: backside_board_three
- S: long_shelf
- T: shelf_one
- T: shelf_two
- T: shelf four
- U: shelf_three
- V: long_support_board
- W: bed_slats
- Y: center_rail
- M6*0.5" bolts: bolt_0.5
- M6*1" bolts: bolt_1.0
- M6*1.2" bolts: bolt_1.2
- M6*2.7" bolts: bolt_2.7
- 4x1.2" screw: screw_1.2
- 4x0.8" screw: screw_0.8