

- How many leftover propellers were there
- How many leftover helicopter bodies were there
- How many leftover struts were there

The program should run through 200 workdays.

Use these assumptions

- A part's time to creation should be rounded up regardless of the value, for example a propeller that takes 31.1 minutes should be considered 32 minutes.
- A workday is 12 hours

## **Part II: Manipulation**

The CEO has decided that the budget allows for 1 additional manufacturing plant. She has put you in charge of adding a body, propeller, or struts plant to create. This additional factory will reduce the mean time to completion by 20%.

Which plant did you select and WHY?

What change in assembly production did you see from the addition of this plant. (Use Excel to represent the data for this question as histogram charts).

Once you have created the original program as well as the updated program you should use EXCEL and Word to create a report that outlines the goals of the program, how they were executed, and the final results. You should include relevant information in tables. Formulas for data creation, etc. should also be included.

Your word document should include

- Cover page
- Introduction
  - What is the problem
  - Who do you represent in the company
- Methodology (This section should not contain results)
  - What is the overall goal
  - In words how are you going to try to solve this problem
  - How does this translate to matlab
- Results
- Conclusion

Your team should submit an m file, a word document, and an EXCEL file.

I will deduct points for poor grammar and spelling. I will give bonus points to groups that take their final document to the writing center.