

Solution Target 2

Explanation:

1. From the below inspection and the histogram (next page) we can see that most people rate themselves as close to the average

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df_pre_contest.mean()
```

Prutor ID	160.900901
Current CGPA	8.386630
Rate your problem solving ability on the scale of 1 to 5	3.175926
Rate your coding proficiency on the scale of 1 to 5	3.083333
How comfortable are you coding in C?	3.324074
dtype: float64	

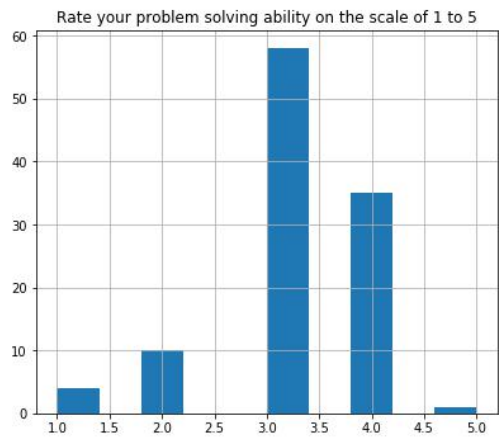
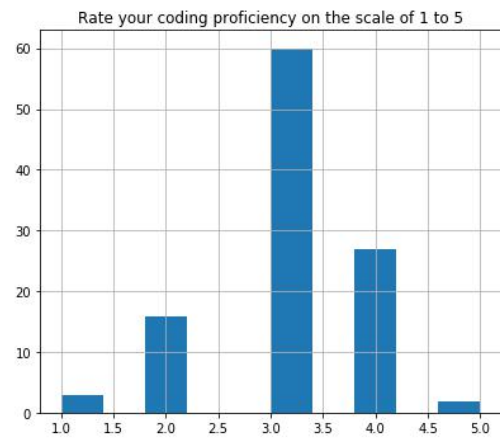
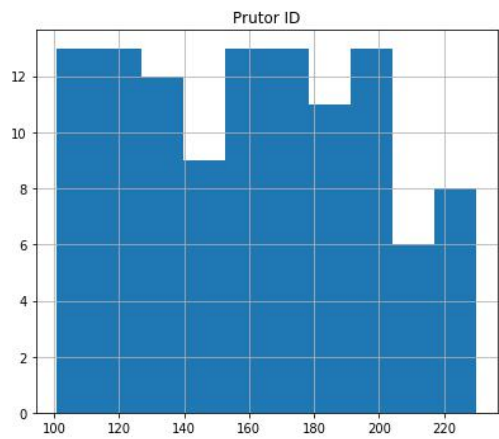
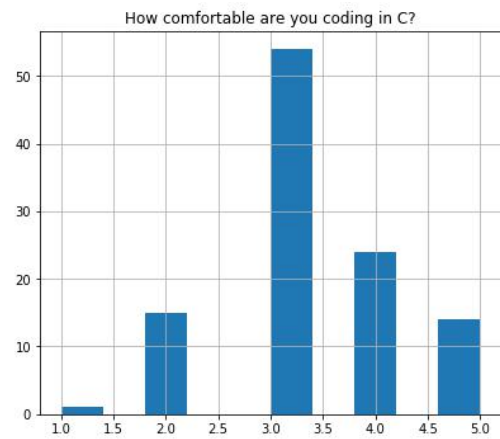
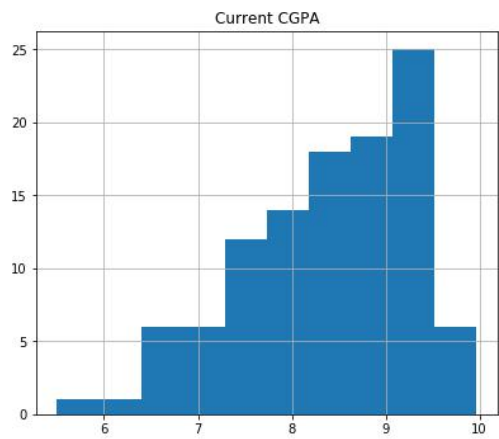
2. From the below inspection, we can see that more people are beginners in programming. Very few people are with more than 4 years of experience exist.

Rate your problem solving ability on the scale of 1 to 5 Rate your coding proficiency on the scale of 1 to 5		
Years of coding experience		
1-2 years	34	34
2-3 years	35	35
3-4 years	13	13
<1 year	16	16
>4 years	10	10

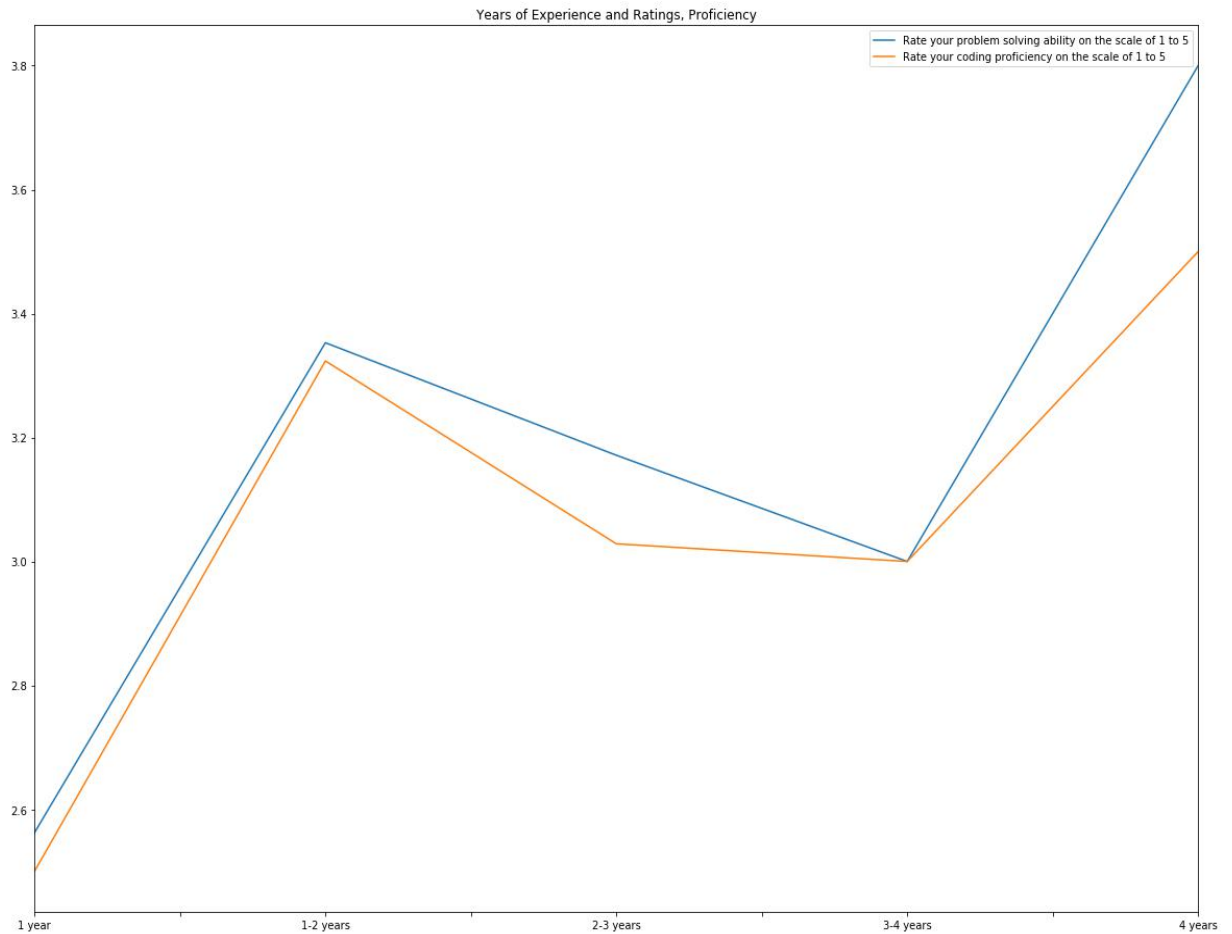
3. Notice that people with more years of experience tend to have higher ratings (comparatively). Although we cannot come to a conclusion that people with more experience are good in programming

Rate your problem solving ability on the scale of 1 to 5 Rate your coding proficiency on the scale of 1 to 5		
Years of coding experience		
1-2 years	3.352941	3.323529
2-3 years	3.171429	3.028571
3-4 years	3.000000	3.000000
<1 year	2.562500	2.500000
>4 years	3.800000	3.500000

Histogram for point 2



4. Years of experience vs Proficiency, Ratings



- Clearly, it is visible that people with more experience tends to rate themselves good in programming on average.
- Notice how people with 1-2 years of experience also tend to rate themselves high compared to other years of experience.
- People in the range 3-4 years have low ratings when compared to 1-2 years because of less samples

5. Also note that more people use C/C++/C# as their most preferred language followed by Python and Java. They rate themselves close to average

Rate your problem solving ability on the scale of 1 to 5		Rate your coding proficiency on the scale of 1 to 5	
Which language are you most comfortable coding in?			
C/C++/C#	80		80
Java	6		6
Javascript	1		1
Python	16		16
RISC-V Assembly	1		1
Web Based Scripting Languages (Like JS, PHP, etc.)	4		4

```
language are you most comfortable coding in?')).mean()[['Rate your problem solving ability on the scale of 1 to 5', 'Rate your coding proficiency on the scale of 1 to 5']]
```

Rate your problem solving ability on the scale of 1 to 5		Rate your coding proficiency on the scale of 1 to 5	
Which language are you most comfortable coding in?			
C/C++/C#	3.200000		3.100000
Java	3.166667		3.166667
Javascript	4.000000		4.000000
Python	3.125000		3.000000
RISC-V Assembly	1.000000		1.000000
Web Based Scripting Languages (Like JS, PHP, etc.)	3.250000		3.250000