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HW3

For COCOMO

1. The overall effort is 26.928 person-months
2. The staff members are round(26.928/8.738), which is 4
3. The project will take 8.738 months, which means at least 9 months (1AY)
4. The project will cost $250025.48, which is 26.928 \* 9285
5. If we want a software engineer to work as 8 hours a day and 5 days a week. Then his effort percentage will be 40hours (works hours in a week)/168hours (all hours in a week) = 23.8%. According to person months conversion equation, 23.8% of AY (Academic year, 9 months) is 2.142[1], which is the assume person-month (PM) for this project.

图形用户界面, 应用程序, Word

描述已自动生成图形用户界面, 应用程序, Word

描述已自动生成According to the indeed data [3], the average monthly salary of software engineer in New Jersey is $9285.

For COCOMOⅡ

1. The overall effort is 38.1 person-months
2. The staff members are round(38.1/11.8), which is 4
3. The project will take 11.8 months, which means at least 12 months (1CY)
4. The project will cost $353698, which is 38.1 \* 9285
5. If we want a software engineer to work as 8 hours a day and 5 days a week. Then his effort percentage will be 40hours (works hours in a week)/168hours (all hours in a week) = 23.8%. According to person months conversion equation, 23.8% of CY (Calendar year, 12 months) is 2.86[2], which is the assume person-month (PM) for this project.

According to the indeed data [3], the average monthly salary of software engineer in New Jersey is $9285.

图形用户界面, 应用程序

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[1] http://research.uthscsa.edu/osp/effort\_cal.shtml

[2] <https://nexus.od.nih.gov/all/2017/03/31/what-is-a-person-month-how-do-i-calculate-it/>

[3] <https://www.indeed.com/career/software-engineer/salaries/NJ>