

COCOMO MODEL Question

Assignment 1

Given 14 months to perform a software project, use the basic COCOMO semi-detached model software project to calculate the following data: Effort in person * month, KLOC, Number of engineers, number of LOC per engineer per month.

<u>Type of Software</u>	<u>a</u>	<u>b</u>	<u>1/b</u>	<u>c</u>	<u>d</u>	<u>1/d</u>	<u>1-d</u>	<u>1/(1-d)</u>
Small	2.4	1.05	0.952	2.5	0.38	2.632	0.62	1.613
Medium	3.0	1.12	0.893	2.5	0.35	2.857	0.65	1.538
Large	3.6	1.20	0.833	2.5	0.32	3.125	0.68	1.471

1. calculate E, the number of engineers * month, using the specified duration D (use only the semi-detached COCOMO model). (3 marks)
2. use E found in (i) to calculate the total number of KLOC (3 marks)
3. calculate the number of engineers using E calculated in (i) and the project specified duration D. (3 marks)
4. using the LOC calculated in (ii) the number of engineers calculated in (iii), and the project duration calculate the number of LOC per month per engineer. (3 marks)