2018380039\_Dikshya Kafle

Project management practical training

1、 Using the program evaluation and review technique to calculate the probability the project can be finished before 70 days.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| activity | Optimistic time | Realistic time | Pessimistic time |  | sigma | ES | EF | LS | LF | slack |
| 1 | 4 | 5 | 8 | 5.33 | 0.666667 | 0 | 5.33 | 0.00 | 5.33 | 0.00 |
| 2 | 4 | 6 | 9 | 6.17 | 0.833333 | 5.33 | 11.5 | 7.16 | 13.33 | 1.83 |
| 3 | 6 | 9 | 13 | 9.17 | 0.666667 | 5.33 | 14.50 | 5.33 | 14.5 | 0.00 |
| 4 | 10 | 12 | 18 | 12.67 | 1.333333 | 11.5 | 24.17 | 13.33 | 26 | 1.83 |
| 5 | 5 | 7 | 9 | 7.00 | 0.666667 | 14.5 | 21.50 | 26.70 | 33.7 | 12.20 |
| 6 | 11 | 12 | 14 | 12.17 | 0.5 | 14.5 | 26.67 | 14.50 | 26.67 | 0.00 |
| 7 | 9 | 10 | 15 | 10.67 | 1 | 24.17 | 34.84 | 26.00 | 36.67 | 1.83 |
| 8 | 4 | 6 | 8 | 6.00 | 0.666667 | 26.67 | 32.67 | 33.70 | 39.7 | 7.03 |
| 9 | 7 | 10 | 13 | 10.00 | 1 | 26.67 | 36.67 | 26.67 | 36.67 | 0.00 |
| 10 | 8 | 9 | 14 | 9.67 | 1 | 36.67 | 46.34 | 36.67 | 46.34 | 0.00 |
| 11 | 4 | 7 | 8 | 6.67 | 0.666667 | 39.70 | 43.34 | 39.70 | 46.37 | 3.03 |
| 12 | 6 | 8 | 12 | 8.33 | 1 | 46.34 | 54.67 | 46.34 | 54.67 | 0.00 |
| 13 | 6 | 7 | 10 | 7.33 | 0.666667 | 47.34 | 50.67 | 47.34 | 54.67 | 4.00 |
| 14 | 3 | 5 | 9 | 5.33 | 1 | 54.67 | 60.00 | 54.67 | 60 | 0.00 |

Critical path = 1,3,6,9,10,12,14

Standard deviation 2.450804

