P97 习题2

每个里程碑（点）的最早开始时间ve、最晚开始时间vl：

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | H | I | J | K | L |
| ve | 0 | 3 | 5 | 8 | 4 | 8 | 7 | 10 | 10 | 12 | 14 | 20 |
| vl | 0 | 3 | 9 | 8 | 7 | 12 | 10 | 13 | 10 | 12 | 17 | 20 |

每个活动（边）的最早开始时间ve、最晚开始时间vl以及时差：

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | AB | AC | AE | BD | BI | CF | DI | EG |
| 耗时 | 3 | 5 | 4 | 5 | 6 | 3 | 2 | 3 |
| ve | 0 | 0 | 0 | 3 | 3 | 5 | 8 | 4 |
| vl | 0 | 4 | 3 | 3 | 4 | 9 | 8 | 7 |
| 时差 | 0 | 4 | 3 | 0 | 1 | 4 | 0 | 3 |
|  | FH | GH | GJ | HK | IJ | JL | JK | KL |
| 耗时 | 1 | 3 | 2 | 4 | 2 | 8 | 2 | 3 |
| ve | 8 | 7 | 7 | 10 | 10 | 12 | 14 | 14 |
| vl | 12 | 10 | 10 | 13 | 10 | 12 | 15 | 17 |
| 时差 | 4 | 3 | 3 | 3 | 0 | 0 | 1 | 3 |

其中，AB、BD、DI、IJ、JL的时差为0，则关键路径为ABDIJL。

P98 习题3

枚举各路径长度：

|  |  |
| --- | --- |
| 路径 | 长度 |
| ABCEHL | 15 |
| ABCEFIJL | 21 |
| **ABCEFIKL** | **24** |
| ABFEHL | 14 |
| ABFIJL | 14 |
| ABFIKL | 17 |
| ABDGIJL | 16 |
| ABDGIKL | 19 |

因此，关键路径为ABCEFIKL。