|  |  |  |  |
| --- | --- | --- | --- |
| Activity | Description | Immediate precursor | Duration |
| A | Registration | START | 2 |
| B | Select account type | A | 1 |
| C | Login | A | 1 |
| D | Modify account | C | 3 |
| E | Change password | D | 1 |
| F | Inquiry | C | 4 |
| G | Account details | F | 1 |
| H | Balance inquiry | F | 2 |
| I | Withdraw | C | 1 |
| J | Deposit | C | 2 |
| K | Replenish cash | I, J | 3 |
| L | Transfer | C, J | 7 |
| M | Open new account | START | 9 |
| N | Close old account | C | 6 |
| O | Received money | I, N | 2 |
| P | logout | B, E, G, H, K, O | 1 |

**Paths:**

* Path 1:

A-B-P = 2+1+1= 4

* Path 2:

A-C-N-O-P = 2+1+6+2+1= 12

* Path 3:

A-C-L-J-K-P = 2+1+7+2+3+1= 16

* Path 4:

A-C-J-K-P = 2+1+2+3+1= 9

* Path 5:

A-C-I-O-P = 2+1+1+2+1 = 7

* Path 6:

A-C-I-K-P = 2+1+1+3+1= 8

* Path 7:

A-C-F-H-P = 2+1+4+2+1= 10

* Path 8:

A-C-F-G-P = 2+1+4+1+1= 9

* Path 9:

A-C-D-E-P = 2+1+3+1+1= 8

* Path 10:

M = 9

**Critical path: -**

Path 3: A-C-L-J-K-P= 16.

**Paths:**

* Path 1: ABP = 4
* Path 2: ACNOP = 12
* Path 3: ACLJKP = 16
* Path 4: ACJKP = 9
* Path 5: ACIOP = 7
* Path 6: ACIKP = 8
* Path 7: ACFHP = 10
* Path 8: ACFGP = 9
* Path 9: ACDEP = 8
* Path 10: M = 9.

**Forward pass:**

* 1st longest: ACLJKP = 16
* 2nd longest: ACNOP = 12
* 3rd longest: ACFHP = 10
* 4th longest: ACJKP = 9
* 5th longest: ACFGP = 9
* 6th longest: M = 9
* 7th longest: ACIKP = 8
* 8th longest: ACDEP = 8
* 9th longest: ACIOP = 7
* 10th longest: ABP = 4.

**Backward pass:**

* 1st longest: PKILCA = 16
* 2nd longest: PONCA = 12
* 3rd longest: PHFCA = 10
* 4th longest: PKICA = 9
* 5th longest: PGFCA = 9
* 6th longest: M = 9
* 7th longest: PKICA = 8
* 8th longest: PEDCA = 8
* 9th longest: POICA = 7
* 10th longest: PBA = 4.