|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Simulation of Method1 | | | | | | |
| Accumulator/Counter | | | | | | Output: |
| num1 | num2 | first | second | third | Return value | -14 20 126# 15 40 407# 15 80 1627# 70 160 6412# |
| 5 | 10  20  40  80  160 | 24  14  5  15  25  15  10  70 | 10  20  20  40  40  80  80  160 | 126  407  1627  6412 | 20  40  80  160 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Simulation of Recursion4 | | | | | | | | |
| Accumulator/Counter | | | | | |  |  | Output: |
| me | num | value(pass) | If(pass==1) | If(pass==2) | value(pass-1)+value(pass-2) | Return value | number | 9th value is 21 |
| “th” | 9 | 9  8  7  6  5  4  3  2  1 | F  F  F  F  F  F  F  F  T | F  F  F  F  F  F  F  T | value(8)+value(7)//paused  value(7)+value(6)//paused  value(6)+value(5)//paused  value(5)+value(4)//paused  value(4)+value(3)//paused  value(3)+value(2)//paused  value(2)+value(1)//paused  return = 1  return = 0 | 13+8=21  8+5=13  5+3=8  3+2=5  2+1=3  1+1=2  1+0=1  1  0 | 21 |