|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | Y | X’ | Y’ | (X+Y)’ | X’.Y’ |
| 0 | 0 | 1 | 1 | 1 | 1 |
| 0 | 1 | 1 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 | 0 |
| 1 | 1 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

DeMorgan’s Laws:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | Y | X’ | Y’ | (X.Y)’ | X’+Y’ |
| 0 | 0 | 1 | 1 | 1 | 1 |
| 0 | 1 | 1 | 0 | 1 | 1 |
| 1 | 0 | 0 | 1 | 1 | 1 |
| 1 | 1 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

AB+BC+CA’=AB+CA’

I=1

J=i-1

T=a[i]

Insertion sort:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 3 | 1 | 7 | 4 | 9 |
| 3 | 5 | 1 | 7 | 4 | 9 |
| 1 | 3 | 5 | 7 | 4 | 9 |
| 1 | 3 | 5 | 7 | 4 | 9 |
| 1 | 3 | 4 | 5 | 7 | 9 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

T=3

1,

7,

4,