# TEXT-OUT

## Πίνακας Αλήθειας

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| L | A | B | C | Fa | Fb | Fc | Fd | Fe | Ff | Fg |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |

## Πίνακες KARNAUGHT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LA\BC | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 0 | 0 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 0 | 1 | 0 | 0 |

Fa ->

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LA\BC | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 0 | 1 |
| 01 | 0 | 0 | 0 | 0 |
| 11 | 0 | 1 | 1 | 1 |
| 10 | 0 | 0 | 0 | 0 |

Fb ->

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LA\BC | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 0 | 1 |
| 01 | 1 | 0 | 0 | 0 |
| 11 | 0 | 1 | 1 | 1 |
| 10 | 0 | 0 | 1 | 0 |

Fc ->

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LA\BC | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 0 | 1 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

Fd ->

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LA\BC | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 0 | 1 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

Fe ->

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LA\BC | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 0 |
| 01 | 1 | 0 | 1 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 1 | 0 |

Ff ->

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LA\BC | 00 | 01 | 11 | 10 |
| 00 | 0 | 1 | 1 | 0 |
| 01 | 0 | 1 | 1 | 1 |
| 11 | 1 | 0 | 0 | 1 |
| 10 | 1 | 1 | 0 | 1 |

Fg ->

## Απλοποιημένες Συναρτήσεις

Fa = L’\*A\*B\*C’ + L\*A’\*B’\*C

Fb = L’\*A’\*B’ + L’\*A’\*C’ + L\*A\*C + L\*A\*B

Fc = L’\*A’\*B’ + L’\*A’\*C’ + L’\*B’\*C’ + L\*B\*C + L\*A\*C + L\*A\*B

Fd = L’\*A\*B + L\*A’\*B’

Fe = L’\*A\*B + L\*A’\*B’

Ff = L’\*A\*C’ + L’\*A\*B + L\*A’\*B’ + L\*A’\*C

Fg = L’\*C + L’\*A\*B + L\*A’\*B’ + L\*C’