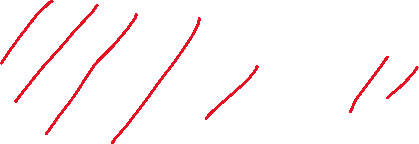
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NOT | 1 | 1 | 0 | 0 | 0 |  |
| INC | 1 | 1 | 0 | 0 | 1 |  |
| DEC | 1 | 1 | 0 | 1 | 0 |  |
| MOV | 1 | 1 | 0 | 1 | 1 |  |
| ADD | 1 | 1 | 1 | 0 | 0 |  |
| IADD | 1 | 1 | 1 | 0 | 0 | 1 |
| SUB | 1 | 1 | 1 | 0 | 1 |  |
| AND | 1 | 1 | 1 | 1 | 0 |  |
| OR | 1 | 1 | 1 | 1 | 1 |  |
| PUSH | 0 | 1 | 0 | 0 | 0 |  |
| POP | 0 | 1 | 0 | 0 | 1 |  |
| LDM | 0 | 1 | 0 | 1 | 0 | 1 |
| LDD | 0 | 1 | 0 | 1 | 1 |  |
| STD | 0 | 1 | 1 | 0 | 0 |  |
| JZ | 1 | 0 | 0 | 0 | 0 |  |
| JC | 1 | 0 | 0 | 0 | 1 |  |
| JMP | 1 | 0 | 0 | 1 | 0 |  |
| CALL | 1 | 0 | 0 | 1 | 1 |  |
| RET | 1 | 0 | 1 | 0 | 0 |  |
| RTI | 1 | 0 | 1 | 0 | 1 |  |
| NOP | 0 | 0 | 0 | 0 | 0 |  |
| SETC | 0 | 0 | 0 | 0 | 1 |  |
| CLRC | 0 | 0 | 0 | 1 | 0 |  |
| IN | 0 | 0 | 0 | 1 | 1 |  |
| OUT | 0 | 0 | 1 | 0 | 0 |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **RegWrite** | **ALUSrc** | **PCSrc** | **MemRead** | **MemWrite** | **MemToReg** | **IN** | **OUT** | **SETC** | **CLRC** | **SP+** | **SP-** |
| NOT | 1 |  |  |  |  |  |  |  |  |  |  |  |
| INC |  |  |  |  |  |  |  |  |  |  |  |
| DEC |  |  |  |  |  |  |  |  |  |  |  |
| MOV |  |  |  |  |  |  |  |  |  |  |  |
| ADD |  |  |  |  |  |  |  |  |  |  |  |
| IADD | 1 |  |  |  |  |  |  |  |  |  |  |
| SUB |  |  |  |  |  |  |  |  |  |  |  |
| AND |  |  |  |  |  |  |  |  |  |  |  |
| OR |  |  |  |  |  |  |  |  |  |  |  |
| PUSH |  |  |  |  | 1 |  |  |  |  |  |  | 1 |
| POP | 1 |  |  | 1 |  | 1 |  |  |  |  | 1 |  |
| LDM | 1 | 1 |  |  |  |  |  |  |  |  |  |  |
| LDD | 1 |  |  | 1 |  | 1 |  |  |  |  |  |  |
| STD |  |  |  |  | 1 |  |  |  |  |  |  |  |
| JZ |  |  | 1 |  |  |  |  |  |  |  |  |  |
| JC |  |  |  |  |  |  |  |  |  |  |  |
| JMP |  |  |  |  |  |  |  |  |  |  |  |
| CALL |  |  |  | 1 |  |  |  |  |  |  | 1 |
| RET |  |  | 1 |  |  |  |  |  |  | 1 |  |
| RTI |  |  | 1 |  |  |  |  |  |  | 1 |  |
| NOP |  |  |  |  |  |  |  |  |  |  |  |  |
| SETC |  |  |  |  |  |  |  |  | 1 |  |  |  |
| CLRC |  |  |  |  |  |  |  |  |  | 1 |  |  |
| IN | 1 |  |  |  |  |  | 1 |  |  |  |  |  |
| OUT |  |  |  |  |  |  |  | 1 |  |  |  |  |

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