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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S** | **TERMINALS** | | | | | | | | | | | | | | | | | | | | | | | | | | | **NONTERMINALS** | | | | | | | | | | |
| $ | % | ( | ) | \* | + | - | / | ^ | | | error | INT | DBL | TRUE | FALSE | ID | OR | AND | NOT | == | != | > | >= | < | <= | acc | expr | | conj | eql | rel | trm | fac | pow | una | abs | lit |
| 0 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | GT10 | | GT11 | GT12 | GT13 | GT14 | GT15 | GT16 | GT17 | GT18 | GT19 |
| 1 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | R28 | X | X | | X | X | X | X | X | X | X | X | X |
| 2 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | R29 | X | X | | X | X | X | X | X | X | X | X | X |
| 3 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | R30 | X | X | | X | X | X | X | X | X | X | X | X |
| 4 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | R31 | X | X | | X | X | X | X | X | X | X | X | X |
| 5 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | X | X | | X | X | X | X | X | X | X | X | X |
| 6 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | GT20 | GT18 | GT19 |
| 7 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | GT21 | GT18 | GT19 |
| 8 | X | X | S9 | X | X | X | X | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | GT22 | GT19 |
| 9 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | GT23 | | GT11 | GT12 | GT13 | GT14 | GT15 | GT16 | GT17 | GT18 | GT19 |
| 10 | S24 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | S25 | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X |
| 11 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | S26 | R1 | R1 | R1 | R1 | R1 | R1 | R1 | X | X | | X | X | X | X | X | X | X | X | X |
| 12 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | R4 | S27 | S28 | R4 | R4 | R4 | R4 | X | X | | X | X | X | X | X | X | X | X | X |
| 13 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | R7 | S29 | S30 | S31 | S32 | X | X | | X | X | X | X | X | X | X | X | X |
| 14 | R12 | R12 | R12 | R12 | R12 | S33 | S34 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | R12 | X | X | | X | X | X | X | X | X | X | X | X |
| 15 | R15 | S37 | R15 | R15 | S35 | R15 | R15 | S36 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | R15 | X | X | | X | X | X | X | X | X | X | X | X |
| 16 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | S38 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | R19 | X | X | | X | X | X | X | X | X | X | X | X |
| 17 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | R21 | X | X | | X | X | X | X | X | X | X | X | X |
| 18 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | R24 | X | X | | X | X | X | X | X | X | X | X | X |
| 19 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | R26 | X | X | | X | X | X | X | X | X | X | X | X |
| 20 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | R22 | X | X | | X | X | X | X | X | X | X | X | X |
| 21 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | R23 | X | X | | X | X | X | X | X | X | X | X | X |
| 22 | X | X | X | X | X | X | X | X | X | S39 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X |
| 23 | X | X | X | S40 | X | X | X | X | X | X | X | X | X | X | X | X | S25 | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X |
| 24 | acc | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X |
| 25 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | GT41 | GT12 | GT13 | GT14 | GT15 | GT16 | GT17 | GT18 | GT19 |
| 26 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | GT42 | GT13 | GT14 | GT15 | GT16 | GT17 | GT18 | GT19 |
| 27 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | GT43 | GT14 | GT15 | GT16 | GT17 | GT18 | GT19 |
| 28 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | GT44 | GT14 | GT15 | GT16 | GT17 | GT18 | GT19 |
| 29 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | GT45 | GT15 | GT16 | GT17 | GT18 | GT19 |
| 30 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | GT46 | GT15 | GT16 | GT17 | GT18 | GT19 |
| 31 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | GT47 | GT15 | GT16 | GT17 | GT18 | GT19 |
| 32 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | GT48 | GT15 | GT16 | GT17 | GT18 | GT19 |
| 33 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | X | GT49 | GT16 | GT17 | GT18 | GT19 |
| 34 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | X | GT50 | GT16 | GT17 | GT18 | GT19 |
| 35 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | X | X | GT51 | GT17 | GT18 | GT19 |
| 36 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | X | X | GT52 | GT17 | GT18 | GT19 |
| 37 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | X | X | GT53 | GT17 | GT18 | GT19 |
| 38 | X | X | S9 | X | X | X | S7 | X | X | S8 | X | S1 | S2 | S3 | S4 | S5 | X | X | S6 | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | GT54 | GT18 | GT19 |
| 39 | X | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | R25 | X | X | | X | X | X | X | X | X | X | X | X |
| 40 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | R27 | X | X | | X | X | X | X | X | X | X | X | X |
| 41 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | S26 | R2 | R2 | R2 | R2 | R2 | R2 | R2 | X | X | | X | X | X | X | X | X | X | X | X |
| 42 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | R3 | S27 | S28 | R3 | R3 | R3 | R3 | X | X | | X | X | X | X | X | X | X | X | X |
| 43 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | R5 | S29 | S30 | S31 | S32 | X | X | | X | X | X | X | X | X | X | X | X |
| 44 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | R6 | S29 | S30 | S31 | S32 | X | X | | X | X | X | X | X | X | X | X | X |
| 45 | R8 | R8 | R8 | R8 | R8 | S33 | S34 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | R8 | X | X | | X | X | X | X | X | X | X | X | X |
| 46 | R9 | R9 | R9 | R9 | R9 | S33 | S34 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | R9 | X | X | | X | X | X | X | X | X | X | X | X |
| 47 | R10 | R10 | R10 | R10 | R10 | S33 | S34 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | R10 | X | X | | X | X | X | X | X | X | X | X | X |
| 48 | R11 | R11 | R11 | R11 | R11 | S33 | S34 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | R11 | X | X | | X | X | X | X | X | X | X | X | X |
| 49 | R13 | S37 | R13 | R13 | S35 | R13 | R13 | S36 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | R13 | X | X | | X | X | X | X | X | X | X | X | X |
| 50 | R14 | S37 | R14 | R14 | S35 | R14 | R14 | S36 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | R14 | X | X | | X | X | X | X | X | X | X | X | X |
| 51 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | S38 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | R16 | X | X | | X | X | X | X | X | X | X | X | X |
| 52 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | S38 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | R17 | X | X | | X | X | X | X | X | X | X | X | X |
| 53 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | S38 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | R18 | X | X | | X | X | X | X | X | X | X | X | X |
| 54 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | R20 | X | X | | X | X | X | X | X | X | X | X | X |
| **S** | $ | % | ( | ) | \* | + | - | / | ^ | | | error | INT | DBL | TRUE | FALSE | ID | OR | AND | NOT | == | != | > | >= | < | <= | acc | expr | | conj | eql | rel | trm | fac | pow | una | abs | lit |
| **TERMINALS** | | | | | | | | | | | | | | | | | | | | | | | | | | | **NONTERMINALS** | | | | | | | | | | |