| State program s2 | id program_begin program_end | ; begin | end else | elseif (|) if while for postop | op integer , = | continue break | display stringLitera | a compop addop | mulop number \$ S' S 1 acc | ST L BE I | IT W | FO FU | AS D | DT V AT CE E T F |
|---|---|--------------------------|----------------|----------------------|---|-----------------------|---|--------------------------|-------------------------------|----------------------------|----------------|----------------|----------|----------------|--|
| 2 3 4 5 6 | s3 s4 s16 | | | | s21 s14 s15 | s17 | s18 s19 | s20 | | | 6 5 7 | 13 8 | 9 | 10 11 | 12 |
| 5 6 7 | s16 s22 r9 r9 r2 r2 | | | | s21 s14 s15 r9 r9 r9 r2 r2 r2 | s17 r9 r2 | s18 s19 r9 r9 r2 r2 | s20 r9 r2 | | | 23 7 | 13 8 | 9 | 10 11 | 12 |
| 8 9 10 | r4 r4 | s24 s25 | | | r3 r3 r3 r3 r4 r4 r4 | r3 r4 | r3 r3 r4 | r3 r4 | | | | | | | |
| 12 13 14 | r11 r11 | s26 | s27 | s28 s29 | r11 r11 r11 | r11 | r11 r11 | r11 | | | | | | | |
| 15 16 | s34 | | | s30 | | s31 | | | | | | | | | 32 33 |
| 18 19 20 | | r25 r26 | | s35 | | | | | | | | | | | |
| 21 22 23 24 | r8 r8 r5 | | | s36 | r8 r8 r8 r5 r5 | r8 r5 | r8 r8 r5 r5 | r8 r5 | | r1 | | | | | |
| 25 26 27 | r6 r6 r7 | s38 | | | r5 r5 r5 r5 r5 r6 r6 r7 r7 r7 r7 | r6 r7 | r6 r6 r7 r7 | r6 r7 | | | 37 | | | | |
| 30 | s46 | | | s39 s44 | | s17 | | | | s45 | | | | 47 | 40 41 42 43 |
| 31 32 33 | s53 | r20 r22 | | s51 | | s54 r22 r23 s55 | | | | s52 | | | | | 48 49 50 |
| 37 | s46 r12 r12 | 123 | | s44 | s56 r12 r12 r12 | r23 s55 | r12 r12 | s57 | | s45 | | | | | 58 41 42 43 |
| 38 | s16 s46 | | | s44 | r12 r12 r12 s70 s68 s69 s72 | s17 | r12 r12 s18 s19 | r12 s20 | | s45 | 60 59 61 | 67 62 | 63 | 64 65 | 66 71 41 42 43 |
| 41 42 43 | | | | | | | | | s73 s74 r31 r31 r33 r33 | s75 r33 | | | | | |
| 44 45 46 | s81 | 600 | | s79 | | | | | | r35 r36 | | | | | 76 77 78 |
| 47 48 49 50 | | s82 r19 r31 r33 | | | | | | | s83 r31 r33 | s84 r33 | | | | | |
| 50 51 52 53 | s81 | r35 r36 | | s79 | | | | | r33 r35 r36 | r33 s80 r35 r36 | | | | | 85 77 78 |
| | s34 s92 | r27 | | s90 | | | | | .55 | s91 | | | | | 86 87 88 89 |
| 57 58 59 | s16 | | s95 | | s93 s94 s70 s68 s69 | s17 | s18 s19 | s20 | | | 96 61 | 67 62 | 63 | 64 65 | 66 |
| 60 61 62 63 | r9 r2 r3 | | r9 r2 r3 | | r9 r9 r9 r2 r2 r2 r3 r3 r3 r4 r4 r4 | r9 r2 r3 | r9 r9 r2 r2 r3 r3 | r9 r2 r3 | | | | | | | |
| 63 64 65 66 | 17 | s97 s98 s99 | 14 | | 14 r4 | 14 | 14 r4 | 14 | | | | | | | |
| 68 69 | r11 | | r11 s100 | s101 s102 s103 | r11 r11 r11 | r11 | r11 r11 | r11 | | | | | | | |
| 70 71 72 | | s38 | | s103 s104 | s105 | | | | | | 106 | | | | |
| 74 | s81 s46 s46 | | | s79 s44 s44 | e110 | | | | | \$80 \$45 \$45 | | | | | 107 77 78 108 43 109 |
| 77 78 79 | s81 | | | s79 | r31 r33 | | | | r31 r33 | s112 r33 s80 | | | | | 113 77 78 |
| 80 81 | s46 | | | \$79 \$44 | r35 r36 | | | | r35 r36 | r35 r36 s45 | | | | | 113 77 78 |
| 83 84 85 | s53 s53 | | | s51 s51 | s118 | | | | s111 | s52 s52 | | | | | 116 50 117 |
| 86 87 88 | | r21 r24 r31 | | | | r21 r24 r31 | | | s119 r31 | s120 r33 | | | | | |
| 90 91 92 | s81 | r35 r36 | | s79 | | r33 r35 r36 | | | r33 r35 r36 | r33 s80 r35 r36 | | | | | 121 77 78 |
| | r10 r10 | r28 s123 | | | r10 r10 r10 | r10 | r10 r10 r8 r8 | r10 | 100 | | 122 | | | | |
| 96 97 98 | r8 r5 r6 | | r8 r5 r6 | | r8 r8 r8 r8 r5 r5 r6 r6 r6 r7 r7 r7 | r8 r5 r6 | r5 r5 r6 r6 | r8 r5 r6 | | | | | | | |
| 99 100 101 102 | r7 s46 | s125 | r/ | s126 s44 | r/ r7 r7 | r/ | r7 r7 | r7 | | s45 | 124 | | | | 127 41 42 43 |
| 103 | s46 s46 | s123 | | \$44 \$44 | | s17 | | | | s45 s45 | 130 | | | 128 | 127 41 42 43 |
| 107 108 | r15 r15 | | | | r15 r15 r15 r29 | r15 | r15 r15 | r15 | s111 r30 r30 | s75 | | | | | |
| | s81 | | | s79 | | | | | r32 r32 r34 r34 | s80 | | | | | 131 78 |
| 112 113 114 115 | s81 | s134 | | s79 | s133 | | | | s111 s135 s74 | s80 | | | | | 132 |
| 116 117 117 118 119 | | r30 r32 r34 | | | | | | | r30 r32 r34 | s84 r32 r34 | | | | | |
| 119 120 121 | s92 s92 | | | s90 s90 | s138 | | | | s111 | s91 s91 | | | | | 136 89 137 |
| 123 124 | r14 r14 s16 r12 s16 | | r14 | r14 | r14 r14 r14 s70 s68 s69 r12 r12 r12 | r14 s17 r12 | r14 r14 s18 s19 r12 r12 r12 | r14 s20 r12 s20 | | | 60 139 61 | 67 62 | 63 | 64 65 | 66 |
| | s16 s46 | s143 | | s44 | \$70 \$68 \$69 \$142 \$142 | s17 | s18 s19 | S2U | | s45 | 60 140 61 | 67 62 | 63 | 64 65 | 66 141 41 42 43 |
| 128 129 130 131 | r13 r13 | 0170 | r13 | r13 | s144 r13 r13 r13 r30 | r13 | r13 r13 | r13 | r30 | s112 | | | | | |
| | s147 | | | | r32 r34 | | | | r32 r34 | r32 r34 | | | 145 | 146 | |
| 136 137 | s53 | r30 r32 | | s51 | | r30 r32 | | | r30 r32 | s52 s120 r32 | | | | | 148 49 50 |
| | s16 s16 | r34 | s149 s150 | | s70 s68 s69 s70 s68 s69 | s17 s17 | s18 s19 s18 s19 | s20 s20 | r34 | r34 | 96 61 96 61 | 67 62 67 62 | 63 63 | 64 65 64 65 | 66 66 |
| 142 | s46 | s125 s155 | | s44 | s151 | | | | | s45 | 152 | | | | 153 115 42 43 |
| 145 146 147 | | 3100 | | | \$156 r17 \$157 \$ | s158 | | | | | | | | | |
| 148 149 | r10 r10 r10 | r29 | r10 | r10 | r10 r10 r10 r10 r10 | r10 r10 | r10 r10 r10 r10 | r10 r10 | s83 | | | | | | |
| 153 | r15 | s155 s160 | r15 | | r15 r15 r15 | r15 | r15 r15 | r15 | | | 159 | | | | |
| | r14 s16 | s38 | r14 r14 | r14 | r14 r14 r14 s70 s68 s69 | r14 s17 | r14 r14 s18 s19 | r14 s20 | | | 60 161 61 | 67 62 | 63 | 64 65 | 66 |
| 158 159 160 | s81 r13 s147 | | r13 r13 | s79 r13 | r18 r13 r13 | r13 | r13 r13 | r13 | | s80 | | | 164 | 146 | 163 77 78 |
| 161 162 163 | s147 s16 r16 r16 | | s165 | | s70 s68 s69 r16 r16 r16 r19 r16 r16 | s17 r16 | s18 s19 r16 r16 | s20 r16 | s111 | | 96 61 | 67 62 | 63 | 146 64 65 | 66 |
| 164 165 166 | r10 | s125 | r10 r10 | r10 | s166 r10 r10 r10 | r10 | r10 r10 | r10 | 3.11 | | 167 | | | | |
| 67 | r16 | 3120 | r16 | | r16 r16 r16 | r16 | r16 r16 | r16 | | | | | | | |