


```

53
54         if (opr == "+")
55         {
56             sw.WriteLine("MOV R0,{0}", arg1);
57             sw.WriteLine("ADD R0,{0}", arg2);
58             sw.WriteLine("MOV {0},R0", t);
59         }
60         else if (opr == "*")
61         {
62             sw.WriteLine("MOV R0,{0}", arg1);
63             sw.WriteLine("MUL R0,{0}", arg2);
64             sw.WriteLine("MOV {0},R0", t);
65         }
66         else if (opr == "-")
67         {
68             sw.WriteLine("MOV R0,{0}", arg1);
69             sw.WriteLine("SUB R0,{0}", arg2);
70             sw.WriteLine("MOV {0},R0", t);
71         }
72         else if (opr == "/")
73         {
74             sw.WriteLine("MOV R0,{0}", arg1);
75             sw.WriteLine("DIV R0,{0}", arg2);
76             sw.WriteLine("MOV {0},R0", t);
77         }
78
79         else
80         {
81             sw.WriteLine("Code generation failed: operator '{0}' not supported", opr);
82             Console.WriteLine("Code generation failed: operator '{0}' not supported", opr);
83             sw.Close();
84             Environment.Exit(0);
85         }
86     }
87
88     else
89     {
90         string result = statement[0];
91         t = statement[2];
92         sw.WriteLine("MOV R0,{0}", t);
93         sw.WriteLine("MOV {0},R0", result);
94     }
95 }
96 }
97 }
98

```