### Normal case

- (base) hanseunghwa@hanseunghwaui-MacBookPro hw2 % java RecurParser RecurParserInputs/test1.txt Parsing OK
- (base) hanseunghwa@hanseunghwaui-MacBookPro hw2 % java RecurParser RecurParserInputs/test2.txt Parsing OK

### Error case

### testError1.txt

```
program1 Exercise
         program_begin
                    integer Time_10_24 = 2206, Hour_In_Day = 0, Minute_In_Hour;
                    if (Time_10_24 < 10)
                     begin
 5
                         display();
 6
                         Hour_In_Day = 24;
                     end
 8
                elseif (Time_10_24 <= 20)
10
                      begin
                         Minute_In_Hour = Hour_In_Day * 60;
11
                         display("Good Day. Peace_to_you.");
12
13
                     end
14
         program_end
15
```

Output

(base) hanseunghwa@hanseunghwaui-MacBookPro hw2 % java RecurParser RecurParserInputs/testError1.txt
 Parsing Error
 missing or wrong keyword: program

### testError2.txt

```
program Exercise
         program_begin
                    integer Time_10_24 = 2206, Hour_In_Day = 0, Minute_In_Hour;
                    if (Time_10_24 < 10)
 5
                      begin
                          display();
 6
                          Hour_In_Day = 24;
 8
                      end
                 elseif (Time_10_24 <= 20)
10
                      begin
11
                          Minute_In_Hour = Hour_In_Day * 60;
12
                          display("Good Day. Peace_to_you.");
13
                      end
       program9_end
14
```

# Output

(base) hanseunghwa@hanseunghwaui-MacBookPro hw2 % java RecurParser RecurParserInputs/testError2.txt
 Parsing Error
 missing or wrong keyword: program\_end

testError3.txt

```
program Exercise
         program_begin
                   intezer Time_10_24 = 2206, Hour_In_Day = 0, Minute_In_Hour;
                   iT (lime_10_24 < 10)
                     begin
                         display();
                         Hour_In_Day = 24;
                     end
                elseif (Time_10_24 <= 20)
10
                     begin
11
                         Minute_In_Hour = Hour_In_Day * 60;
12
                         display("Good Day. Peace_to_you.");
13
                     end
14
        program_end
```

# Output

(base) hanseunghwa@hanseunghwaui-MacBookPro hw2 % java RecurParser RecurParserInputs/testError3.txt
 Parser Error
 wrong keyword for type

### testError4.txt

```
program Exercise
         program begin
 2
                    Time_10_24 = 2206, Hour_In_Day = 0, Minute_In_Hour;
                    if (Time_10_24 < 10)
 5
                      begin
                         display();
 6
                         Hour_In_Day = 24;
 8
                      end
                elseif (Time_10_24 <= 20)
                      begin
10
                         Minute_In_Hour = Hour_In_Day * 60;
11
12
                         display("Good Day. Peace_to_you.");
13
                      end
14
        program_end
```

# Output

(base) hanseunghwa@hanseunghwaui-MacBookPro hw2 % java RecurParser RecurParserInputs/testError4.txt
Parser Error
missing keyword for type

### testError5.txt

```
program Exercise
 2
         program_begin
 3
                   integer Time_10_24 = 2206, Hour_In_Day = 0, Minute_In_Hour;
                   if (Time 10 24 < 10)
                         display();
 6
                         Hour_In_Day = 24;
 8
                     end
                elseif (Time_10_24 <= 20)
10
                     begin
11
                         Minute_In_Hour = Hour_In_Day * 60;
                         display("Good Day. Peace_to_you.");
12
13
                     end
14
        program_end
```

## Output

(base) hanseunghwa@hanseunghwaui-MacBookPro hw2 % java RecurParser RecurParserInputs/testError5.txt
 Parsing Error
 In if statement, there is no begin [missing keyword]

# testError6.txt

```
display();
                        Hour_In_Day = 24;
                     end
                elseif (Time_10_24 <= 20)
                     begin
                        Minute_In_Hour = Hour_In_Day * 60;
                        display("Good Day. Peace_to_you.");
                     end
                else
                     begin
                        display("Good evening.");
                     end
                while ( temp > 10)
                             begin
                        temp = temp+1;
                        display("Increase temperature");
                        if (temp == 15)
                           begin
                            display("stop increasing temp");
                            break;
                           end
                        elseif ( temp+2 >= 2)
                             begin
                                    break
30
                             end
```

# Output

(base) hanseunghwa@hanseunghwaui-MacBookPro hw2 % java RecurParser RecurParserInputs/testError6.txt
 Parsing Error
 missing statement terminator

### testError7.txt

```
program Exercise
        program_begin
                    integer Time_10_24 = 2206, Hour_In_Day = 0, Minute_In_Hour;
                    if (Time_10_24 < 10)
                      begin
                         display();
 6
                          Hour_In_Day =
                      end
                elseif (Time_10_24 <= 20)
 9
10
                      begin
11
                         Minute_In_Hour = Hour_In_Day * 60;
12
                          display("Good Day. Peace_to_you.");
13
                      end
14
       program_end
15
```

## Output

(base) hanseunghwa@hanseunghwaui-MacBookPro hw2 % java RecurParser RecurParserInputs/testError7.txt
 Parser Error
 factor error: there is no appropriate id or number or expression