

```
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fail_at x
1 while(x==1)
2 {
3     i=1;
4     int foo()
5     {
6         int y;
7         y=3;
8         return 1;
9     }
10    return 0;
11 }
12

*****
Test number 1 shuld faild
fail_a
*****
Error: syntax error at line 1
Parser does not expect 'while'

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```

```
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fail_b.t x
1 int foo(
2 {
3
4     while(x==1)
5     {
6         int test;
7         test=10;
8         if(x>test)
9             return 0;
10        else
11            return 1;
12    }
13 }
14

*****
Test number 2 shuld faild
fail_b
*****
Error: syntax error at line 2
Parser does not expect '{'

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```

pass_a.t
x

1 int test()
2 {
3 char dol, ev;
4 for(i=0; i<4; i=i+1)
5 {
6 x=1;
7 y=x;
8 }
9 while(x==5)
10 {
11 s=a[i];
12 x=x+1;
13 }
14 hehe=NULL;
15
16 return x;
17 }
18

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```

*****
Test number 3 shuld pass
pass_a
*****
->Begin:
->int
    ->test
    ->char
    ->dol
    ->ev
    ->while
        ->=
            ->i
            ->0
            ->i
            ->4
        ->while
            ->==
                ->x
                ->5
            ->=
                ->s
                ->ABS
                ->a
            ->=
                ->x
                ->+
                ->x
                ->1
        ->=
            ->hehe
            ->>null
    ->return
    ->x

```

pass_b.t
x

1 int test2(int y)
2 {
3 int x;
4 char c;
5
6 x=test();
7
8 h=NULL;
9
10 if(1>2)
11 | x=2;
12 else
13 | x=3;
14 myRef=&t;
15 c='e';
16 foo();
17 }
18
19

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```

*****
Test number 4 shuld pass
pass_b
*****
->Begin:
->int
    ->test2
    ->y
    ->int
    ->x
    ->char
    ->c
    ->=
        ->x
        ->test
        ->test
    ->=
        ->h
        ->>null
    ->if
        ->>
            ->1
            ->2
        ->else
            ->=
                ->x
                ->2
            ->=
                ->x
                ->3
        ->=
            ->myRef
            ->&
            ->t
    ->=
        ->c
        ->'e'
    ->foo
    ->foo

```

```

pass_c.t x
1 void main()
2 {
3     int t,t1;
4     string s[100];
5     char c;
6
7     ^ptr=2+3;
8
9     if(1>2)
10         t=1;
11     else
12         t=2;
13     test_forcheckc=&t;
14     if(false&&(true||(2+3)))
15         t=3;
16         s="hello";
17         c='e';
18         t=|s|;
19         t1=2+3-5;
20         test2(t);
21 }
22

```

```

*****
Test number 5 shuld pass
pass_c
*****
->Begin:
    ->void
        ->main
        ->int
        ->t
        ->t1
        ->string
        ->s
        ->100
        ->char
        ->c
        ->=
            ->^
            ->ptr
            ->+
            ->2
            ->3
        ->if
            ->>
            ->1
            ->2
            ->else
            ->=
            ->t
            ->1
            ->=
            ->t
            ->2
        ->=
            ->test_forcheckc
            ->&
            ->t
        ->if
            ->&&
            ->boolean
            ->>false
            ->||
            ->boolean
            ->>true
            ->+
            ->2
            ->3
        ->=
            ->t
            ->3
        ->=
            ->s

```

DebugTasksHelp

pass_d.t x

pass_b.t

parser.y

compileAndRun

1

int foo(int i, char j, string k)

2

{

3

int k;

4

// variable declarations

5

int square(int t) // function declarations

6

{

7

int temp;

8

temp = t* t;

9

return 1;

10

}

11

int total;

12

k=5;

13

total = i+square(k);

14

15

for(i;i<2;i+1)

16

{

17

/*Hi what is up?*/

18

}

19

20

return total-10;

21

}

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pass_d

->Begin:

->int

->foo

->i

->j

->k

->int

->k

->int

->square

->t

->int

->temp

->=

->temp

->*

->t

->t

->return

->1

->int

->total

->=

->k

->5

->=

->total

->+

->i

->square

->k

->while

->i

-><

->i

->2

->return

->-

->total

->10

pass_d.t x pass_c.t parser.y compileAndRun

```

1  int foo(int i, char j, string k)
2  {
3      int k;
4      // variable declarations
5      int square(int t) // function declarations
6      {
7          int temp;
8          temp = t* t;
9          return 1;
10     }
11     int total;
12     k=5;
13     total = i+square(k);
14
15     for(i;i<2;i+1)
16     {
17         /*Hi what is up?*/
18     }
19
20     return total-10;
21 }

```

Test number 6 shuld pass

pass_d

->Begin:

->int

->foo

->i

->j

->k

->int

->k

->int

->square

->t

->int

->temp

->=

->temp

->*

->t

->t

->return

->1

->int

->total

->=

->k

->5

->=

->total

->+

->i

->square

->k

->while

->i

-><

->i

->2

->return

->-

->total

->10