编译原理第二次实验测试用例:目录

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1 A 组测试用例

本组测试用例共 20 个,测试用例 1-17 分别对应语义错误 1-17,之后三个测试用例对应于语义错误 15,9,16。每个用例仅在其中一行含有语义错误。某些语义错误可能会产生连锁反应。测试用例 A-i 对应的"本质错误"的错误类型是必须报出来的,如果报出其他错误,只要是由本质错误连带引发的(包括但不限于下面明确给出的情况),我们都不会扣分。错误编号和行号之后的说明文字不要求与给出的输出完全一致,仅供助教理解使用,不作为评分依据。

1.1 A-1

输入

```
struct Vector {
    int x;
    int y;

int setVector(int x1, int y1, int z1)

struct Vector a, b;
    a.x = x1;
    a.y = y1;
    z = z1;
}
```

输出

```
Error type 1 at line 10: Undefined variable "z"
```

说明: z=z1 这一句包含未定义的变量 z, 这里也可以另外报出错误类型 5 (= 两边类型不匹配)。

1.2 A-2

```
int sort()

int a[10];

int i = 0;
```

```
while (i<10) {
    int j = 0;
    while (j<10) {
        if (a[j]<=a[j+1])
            a[j] = 0;
    else
        swap(a,j,j+1);
    }
}
return 0;
</pre>
```

```
Error type 2 at line 11: Undefined function "swap"
```

说明: swap 函数未定义。

1.3 A-3

```
struct name {
   int z;
}namel;

struct Vector {
   int x;
   int y;
};

int main()

struct Vector vector;
int name = vector.x;
```

```
vector.x = 2;
name1.z = 5;

vector.y = name1.z;

if(vector.y==5) {
    vector.y = name1.z;
}

return 0;
}
```

```
Error type 3 at line 13: Redefined variable "name"
```

说明: 重复定义的变量 name, 这里如果错误位置写为第1行也算对。

1.4 A-4

```
int math_function(int a, int b, int c){
   int result = a + b + c;
   return result;
}

int math_function(int a1, int b1){
   int result1 = a1 + b1 * a1;
   return result1;
}

int main()

return math_function(5,4,7);
```

```
14 }
```

```
Error type 4 at line 6: Redefined function "math_function"
```

说明: 重复定义的函数 math_function。这里如果没有把重复定义的函数放入符号表,会在第 13 行报了错误类型 2,是否报出这个错误,不影响得分。

1.5 A-5

输入

```
struct Food {
       int type;
       int weight;
       float price;
  };
  struct Purchase{
       struct Food food;
       int time;
       int sum;
10
  };
11
12
  int main(){
13
       struct Food a;
14
       struct Purchase b;
15
      b.food = a;
16
      b.time = 13;
17
      b.sum = a;
18
```

输出

```
Error type 5 at line 18: Type mismatched
```

说明:赋值号两边类型不匹配(结构体赋值给整型)。

1.6 A-6

输入

```
int returnSmallerOne(int x, int y)
2
       if(x >= y)
3
           return y;
       else
           return x;
  int main()
10
       int min = 14;
11
       int a = 12, b = 15;
12
       if( returnSmallerOne(a, b) < min)</pre>
13
           min = returnSmallerOne(a, b);
14
       else
15
           returnSmallerOne(a, b) = min;
```

输出

Error type 6 at line 16: The left-hand side of an assignment must be a variable

说明:赋值号左边是一个不能为左值的类型(函数)。

1.7 A-7

```
struct Vector {
   int x, y;
   float array[5];
};
```

```
int main()

funct Vector A;

float array1[10],b;

A.x = 12;

A.y = 13;

b = A.array[2];

array1[1] = A.array[2] * 2;

}
```

```
Error type 7 at line 14: Operands type mismatched
```

说明:乘号操作符两边类型不匹配,这里可以另外报错误类型 5 (赋值号两边错误类型不匹配), 必须在 14 行。

1.8 A-8

```
struct Vector{
      float x;
2
      float y;
3
      float z;
  };
  int structMutipleFunction(struct Vector A, struct Vector B)
      float c = A.x * B.x + A.y * B.y + A.z * B.z;
8
      return c;
9
11
 float structAddFunction(struct Vector A1)
12
  {
13
```

```
float c1 = A1.x + A1.y + A1.z;
return c1;
}
```

```
Error type 8 at line 9: The return type mismatched
```

说明:返回值实际类型与函数定义不一致,报在第6行也是对的。

1.9 A-9

```
int split(int first, int last)
       int x[10];
3
       int pivot = first;
       int split_point = first;
       int i = first + 1;
       int temp, temp2;
       while(i <= last)</pre>
           if(x[i] < x[pivot])
10
           {
11
                split_point = split_point + 1;
12
                temp = x[i];
13
                x[i] = x[split point];
                x[split point] = temp;
15
           }
16
           i = i + 1;
17
       temp2 = x[pivot];
       x[pivot] = x[split_point];
20
       x[split_point] = temp2;
21
       return split_point;
22
```

```
Error type 9 at line 27: The method "split" is not applicable for the arguments
```

说明: 函数实参与形参数目不一致。

1.10 A-10

输入

```
struct Vector {
   int x, y;
   float array[5];

int main()

{
   struct Vector v1, v2;
   v1.array[1] = 1.0;
   v2.x[1] = 2;
   return 0;
}
```

输出

```
Error type 10 at line 10: Illegal use of "[]"
```

说明:对非数组变量使用[]操作符,这里会连带报出错误类型5,因为赋值号左边的类型可以算作是"未知"。

1.11 A-11

输入

```
int multiple function(int len)
2
      int array[10];
3
      int result = 1;
      int i = 0;
      while(i < 10){
6
          result = result * array[i];
          i = i + 1;
      return result;
10
11
12
  int main()
14
      int t = multiple_function(5);
15
      t(5);
```

输出

```
Error type 11 at line 16: "t" must be a function
```

说明:对非函数的标识符使用()操作符。

1.12 A-12

```
int bubblesort(int n)

int exchange;

int i, j, temp;

int p[50];
```

```
while(i < n)</pre>
             i = i + 1;
8
             exchange = 1;
10
             while(j < n)</pre>
12
                  j = j + 1;
13
                  if(p[j] > p[j+1])
14
                       temp = p[j+1];
16
                       p[j+1] = p[j];
17
                       p[0.5] = temp;
18
                       exchange = 0;
19
                  }
20
             }
21
             if(exchange == 0)
22
                 p[i] = -1;
23
        }
24
25
```

```
Error type 12 at line 18: Operands type mistaken
```

说明:数组下标非整数。

1.13 A-13

```
struct {
    int a;
    int b;
} v;
int test_function()
```

```
6 {
7    int temp = 2;
8    v.a = temp + v.b * v.a;
9    v.b = temp.b;
10 }
```

```
Error type 13 at line 9: Illegal use of "."
```

说明:对非结构体变量使用"."操作符,同时可以报出错误类型5。

1.14 A-14

输入

```
struct _Vector_1 {
      float x, y;
2
  };
  struct _Vector_2 {
       float a, b, c;
  };
  int main()
9
      struct _Vector_1 v1;
10
       struct _Vector_2 v2;
11
      float p,q;
12
      p = v1.x + v1.y * v1.z;
13
       q = v2.a + v2.b * v2.c;
14
      return 0;
15
```

输出

```
Error type 14 at line 13: Un-existed field "z"
```

说明:使用了结构体中未定义的域 z,这里可以报出错误类型 5 和 7。

1.15 A-15

输入

```
struct Food {
   int num, weight, price;
   float price;
   float time;
};

int main()

struct Food food;
food.weight = 20;
}
```

输出

```
Error type 15 at line 3: Redefined field "price"
```

说明:结构体内部有重复定义的域。有的同学由于 Food 定义错误,就没有将其放入符号表,因此会在第 9 行第 10 行报 Food 未定义,这个不影响得分。

1.16 A-16

```
struct Food {
   int price, weight;
};

int main()

struct Food meat;

meat.price = 20;
meat.weight = 34;
return 0;
```

```
Error type 16 at line 13: Duplicated name "Food"
```

说明: 重复定义的结构体 Food。

1.17 A-17

输入

```
struct Food_purchase {
      int price, weight;
  };
  struct Drink_purchase {
      int sweet;
      int price2;
  };
8
  int main()
10
      struct Food_purchase meat;
11
      struct Food_purchase2 vegetable;
12
      struct Drink_purchase orange;
13
      return 0;
14
```

输出

```
Error type 17 at line 12: Undefined struct "Food_purchase2"
```

说明:使用了未定义的结构体 Food_purchase2。

1.18 A-18

输入

```
struct Food {
   int price;
   float weight = 0.19;
};

int main()

{
   struct Food food;
   food.price = 25;
   food.weight = 0.5;
}
```

输出

```
Error type 15 at line 3: "weight" is initialized when defined
```

说明: 在结构体中不能初始化变量。

1.19 A-19

```
struct Food {
   int price;
   float weight;

struct Food2 {
   int price1;
   int weight1;
}food;

int set_Item(struct Food temp) {
```

```
temp.price = 10;
12
       temp.weight = 0.5;
13
       return 0;
14
15
   int main()
17
       int temp1 = 20;
18
       struct Food food2;
19
       food2.price = temp1;
20
       food2.weight = 0.5;
21
       set Item(food);
22
       set Item(food2);
23
24
25
```

```
Error type 9 at line 22: The method "set_Item" is not applicable for the arguments
```

说明: 函数实参与形参类型不一致。

1.20 A-20

```
struct Food {
   int price;
   float weight;

food;

int main()

int temp = 20;
   struct Food food2;
   food2.price = 25;
```

```
food2.weight = 0.5;

food.price = temp;

food.price = temp;

struct temp{
   int price1;
   float weight1;
};
```

```
Error type 16 at line 17: Duplicated name "temp"
```

说明:结构体与之前定义的变量重名,错误报在第8行也对。

2 B组测试用例

本组测试用例共 2 个,其中包含多个语义错误。每一行的语义错误会分别算分,同一个语义错误可能会有连锁反应,其处理方式与 A 类用例相同,只要是合理的(包括但不限于下面明确给出的情况),都不会影响得分。

2.1 B-1

```
struct Triangle{
   int edge1;
   int edge2;
   int edge3;
};

struct Circle{
   int r;
};
```

```
10
  struct Rectangle{
11
12
       int long edge;
       int short edge;
13
  };
14
   struct Triangle setTriangle(int a,int b, int c){
       struct Triangle triangle set;
16
       triangle_set.edge1 = a;
17
       triangle_set.edge2 = b;
18
       triangle set.edge3 = d;
       return triangle set;
21
   struct Circle setCircle(int d) {
22
       struct Circle circle set;
23
       circle set.r = d;
24
       return circle set;
25
26
   struct Rectangle setRectangle(int 1, int s) {
27
       struct Rectangle rectangle set;
28
       rectangle set.long edge = 1;
29
       rectangle set.short edge = s;
30
       return rectangle set;
31
32
   int compareReturnShortest(struct Triangle triangle, struct Circle
33
      circle, struct Rectangle rectangle) {
       int perimeter1 = triangle.edge1 + triangle.edge2 + triangle.edge3
34
       int perimeter2 = circle.r * 3 * 2;
35
       int perimeter3 = 2 * (rectangle.long edge + rectangle.short edge)
36
       if(perimeter1 < perimeter2) {</pre>
37
           if (perimeter1 <= perimeter3)</pre>
```

```
return 1;
39
            else return 3;
40
41
       else {
42
            if (perimeter2 <=perimeter3)</pre>
43
                return 2;
            else return 3;
45
46
       return 0;
47
48
  int main(){
50
       struct Triangel temp1 = setTriangle(3,4,5);
51
       struct Circle temp2 = setCircle(2);
52
       struct Rectangle temp3 = setTriangle(3,4,1);
53
       return compareReturnShortest(temp1, temp1, temp3);
54
55
56
```

```
Error type 1 at line 19: Undefined variable "d"

Error type 17 at line 51: Undefined struct "Triangel"

Error type 5 at line 53: Type mismatched

Error type 9 at line 54: The method "compareReturnShortest" is not applicable for the arguments
```

说明:输出中的4个错误为本质错误,是必须要报出来的,这些错误可能会有连锁反应:第19行的错误可能会导致错误类型5,因为d的类型未知;第51行的变量Triangel没有定义,Triangel的类型可以看作未知,因此可能会报出一个类型5错误,连锁不仅限与此,合理即可。

2.2 B-2

```
struct Array_Vector{
```

```
int length = 0;
       int array[100];
  };
  struct {
       int len;
6
       int array2[5];
   }vector define;
   int main(){
10
       struct Array Vector vector array;
11
       int i, j;
12
       vector array.length = 100;
13
14
       while(i<vector array.length) {</pre>
15
            if(i<vector define.len)</pre>
                vector_array.array[i] = vector_define.array2[i];
17
            else
18
                vector_array.array[i] = i * i[i] + 1;
19
            i = i + 1;
20
21
       j = 0;
22
       while(j<vector define.len) {</pre>
23
            vector define.array[i] = j * 2 + 1;
24
            vector_define.array2[i] + 0 = vector_define.array2[i] * j;
25
       }
26
27
```

```
Error type 15 at line 2: "length" is initialized when defined
Error type 10 at line 19: Illegal use of "[]"

Error type 14 at line 24: Un-existed field "array"
```

Error type 6 at line 25: The left-hand side of an assignment must be a variable

说明:输出中的4个错误为本质错误,是必须要报出来的,这些错误可能会有连锁反应:第19行的错误可能会导致错误类型5和7,因为i[i]的类型未知;第24行可能会报出一个类型5错误,连锁不仅限与此,合理即可。

3 C 组测试用例

本组测试用例共2个,不包含任何错误。

3.1 C-1

```
struct Triangle{
       int edge1;
2
       int edge2;
       int edge3;
  };
5
  struct Circle{
       int r;
8
  };
10
  struct Rectangle{
       int long edge;
12
       int short edge;
13
  };
14
  struct Triangle setTriangle(int a,int b, int c) {
15
       struct Triangle triangle set;
       triangle_set.edge1 = a;
17
       triangle_set.edge2 = b;
18
       triangle_set.edge3 = c;
19
       return triangle set;
```

```
struct Circle setCircle(int d) {
22
23
       struct Circle circle set;
       circle_set.r = d;
24
       return circle set;
25
   struct Rectangle setRectangle(int 1, int s) {
       struct Rectangle rectangle set;
28
       rectangle_set.long_edge = 1;
29
       rectangle set.short edge = s;
30
       return rectangle set;
32
  int compareReturnShortest(struct Triangle triangle, struct Circle
33
      circle, struct Rectangle rectangle) {
       int perimeter1 = triangle.edge1 + triangle.edge2 + triangle.edge3
       int perimeter2 = circle.r * 3 * 2;
35
       int perimeter3 = 2 * (rectangle.long_edge + rectangle.short_edge)
       if (perimeter1 < perimeter2) {</pre>
37
           if (perimeter1 <= perimeter3)</pre>
38
                return 1;
39
           else return 3;
40
41
       else {
42
           if (perimeter2 <=perimeter3)</pre>
43
                return 2;
           else return 3;
       }
46
       return -1;
47
48
```

```
int main(){
    struct Triangle temp1 = setTriangle(3,4,5);

struct Circle temp2 = setCircle(2);

struct Rectangle temp3= setRectangle(3,4);

return compareReturnShortest(temp1, temp2, temp3);

}
```

```
1 //正常返回,没有任何输出。
```

说明: 本测试用例是 B 1 类测试用例的改正版。

3.2 C-2

```
struct Array_Vector{
       int length;
       int array[100];
  };
  struct {
       int len;
       int array2[5];
  }vector define;
  int main(){
       struct Array_Vector vector_array;
11
       int i, j;
12
       vector array.length = 100;
13
       i = 0;
14
       while(i<vector array.length) {</pre>
           if(i<vector define.len)</pre>
16
                vector_array.array[i] = vector_define.array2[i];
17
           else
```

```
vector_array.array[i] = i * i + 1;

i = i + 1;

j = 0;

while(j<vector_define.len){
    vector_define.array2[i] = j * 2 + 1;
    vector_define.array2[i] = vector_define.array2[i] * j;
}

vector_define.array2[i] = vector_define.array2[i] * j;
}</pre>
```

```
1 //正常返回,没有任何输出。
```

说明:本测试用例是 B_2 类测试用例的改正版。

4 D 组测试用例

本组测试用例共3个,针对不同分组进行测试。需要能够识别其语言特性,如果提示错误则不得分,其他分组的同学需要识别出其中的错误,如果没有报错,则将视为违规,将会<mark>倒扣分</mark>。

4.1 D-1

```
struct Node{
   int no;
   int name[5];
   float value;
   int nextno;

};

int initial_Node(struct Node temp1) {
   int i = 0;
   while(i<5) {</pre>
```

```
temp1.name[i] = i;
           i = i + 1;
12
13
       temp1.value = 0.0;
14
       temp1.no = temp1.nextno = -1;
15
       return 1;
17
  int add_Node(struct Node former, struct Node later);
18
19
20
  int main(){
22
       struct Node a, b;
23
       initial Node(a);
24
       initial Node(b);
25
       return add_Node(a,b);
26
27
28
  int add Node(struct Node former, struct Node later) {
       if(former.nextno!=-1 && later.nextno == -1) {
30
           later.nextno = former.nextno;
31
           former.nextno = later.no;
32
           return 0;
33
34
       else if(former.nextno == -1 && later.nextno != -1) {
35
           former.nextno = later.no;
36
           return 1;
       return -1;
39
40
```

```
1 //正常返回,没有任何输出。
```

说明:对于 2.1 分组的同学,应该没有任何输出,对于其他分组的同学,应该在第 18 行报出有语法错误 (Error type B at line 18)。

4.2 D-2

```
struct DepartmentGuest{
       int ageG;
       int isMaleG;
       int EQG;
       int scoreG[5];
  };
  struct DepartmentOwner{
       int age0;
8
       int isMaleO;
  }owner;
11
  int guestComparison(struct DepartmentGuest guest a, struct
12
      DepartmentGuest guest b) {
       int result = 0;
13
       if (guest_a.ageG > guest_b.ageG)
14
           result = guest_a.ageG - guest_b.ageG;
15
       if (guest_a.EQG > guest_b.EQG)
           result = result * 2;
18
       return result - owner.ageO;
19
20
21
  int totalEQ(struct DepartmentGuest guest a, struct DepartmentGuest
     guest_b) {
      return guest_a.EQG + guest_b.EQG;
23
  }
24
```

```
int main(){
       struct DepartmentGuest guest1, guest2;
26
       int i = 0;
27
       int result = 0;
28
      while(i<5){
29
           result = result + guest1.scoreG[i] + guest2.scoreG[i];
           i = i + 1;
31
       }
32
33
       return result + totalEQ(guest1, guest2) + guestComparison(guest1,
34
          guest2);
35
36
```

```
1 //正常返回,没有任何输出。
```

说明:对于 2.2 分组的同学,应该没有任何输出,其他分组的同学应该会识别出大量的重复定义变量(guest_a, guest_b 和 result)。

4.3 D-3

```
struct Vector1{
       int a1;
2
       int b1;
3
  };
  struct Vector2{
       int a2;
6
       int b2;
  };
  struct Vector3{
       int a3[5];
10
       float b3[2][1];
11
```

```
};
   struct Vector4{
13
14
       int a4[6];
       float b4[5][1];
15
   };
16
17
   int main(){
18
       struct Vector1 v1;
19
       struct Vector2 v2;
20
       struct Vector3 v3;
21
       struct Vector4 v4;
       v1 = v2;
23
       v3 = v4;
24
25
26
   }
27
```

```
1 //正常返回,没有任何输出。
```

说明:对于分组 2.3 的同学,应该没有任何输出,其他分组的同学应该在 23 行 24 行识别出类型不匹配。(函数参数类型 Error type 5)

5 E 组测试用例

本组测试用例共3个,针对不同分组进行测试

5.1 E-1

这组测试用例针对 2.1 分组的同学

```
struct Node{
int no;
int name[5];
```

```
float value;
       int nextno;
  };
  struct Node initial Node(struct Node temp1);
  int add_Node(struct Node former, struct Node later, int m);
  int delete Node(struct Node temp);
11
12
13
  int main(){
       struct Node a, b;
14
       initial Node(a);
15
       initial Node(b);
16
       delete Node(a);
17
       return add Node(a,b);
19
20
  int add_Node(struct Node former, struct Node later) {
21
       if(former.nextno!=-1 && later.nextno == -1) {
22
           later.nextno = former.nextno;
23
           former.nextno = later.no;
24
           return 0;
25
       else if(former.nextno == -1 && later.nextno != -1) {
27
           former.nextno = later.no;
28
           return 1;
29
       return -1;
  }
32
33
  int initial Node(struct Node temp1) {
       int i = 0;
```

```
while (i<5) {
    temp1.name[i] = i;
    i = i + 1;
}

temp1.value = 0.0;

temp1.no = temp1.nextno = -1;

return 1;
}</pre>
```

```
Error type 19 at line 21: Inconsistent declaration of function "
    add_Node"

Error type 19 at line 34: Inconsistent declaration of function "
    initial_Node"

Error type 18 at line 11: Undefined function "delete_Node"
```

说明: 仅 2.1 分组同学需要测试该用例,需要输出上述的错误信息,其中错误类型 19 也可以输出在第 18 行, 第 18 行也可以多报一个错误类型 9。

5.2 E-2

这组测试用例针对 2.2 分组的同学

```
struct DepartmentGuest{
   int ageG;
   int isMaleG;
   int EQG;
   int scoreG[5];

struct DepartmentOwner{
   int ageO;
   int isMaleO;
}owner;
```

```
int guestComparison(struct DepartmentGuest guest a, struct
      DepartmentGuest guest b) {
       int result = 0;
13
       if(guest a.ageG > guest_b.ageG)
14
           result = guest a.ageG - guest b.ageG;
15
       if(guest a.EQG > guest b.EQG)
17
           result = result * 2;
18
       return result - owner.ageO;
19
20
  int totalEQ(struct DepartmentGuest guest_a, struct DepartmentGuest
      guest b) {
       struct DepartmentGuest guest a;
23
       return guest a.EQG + guest b.EQG;
24
25
  int main(){
26
       struct DepartmentGuest guest1, guest2;
27
       int i = 0;
       int result = 0;
29
       while (i<5) {
30
           int j = 0;
31
           result = result + guest1.scoreG[i] + guest2.scoreG[i];
32
           i = i + 1;
33
           j = i;
34
35
       j = owner.ageO;
       return result + totalEQ(guest1, guest2) + guestComparison(guest1,
          quest2);
38
39
```

```
Error type 3 at Line 23: Redefined variable "guest_a"

Error type 1 at Line 36: Undefined variable "j"
```

说明: 仅 2.2 分组同学需要测试该用例,需要输出上述的错误信息。

5.3 E-3

这组测试用例针对 2.3 分组的同学

```
struct Vector1{
       int a1;
2
       int b1;
3
  } ;
  struct Vector2{
       int a2;
       int b2;
  };
  struct Vector3{
       int a3[5];
10
       float b3[2][1];
11
  };
12
  struct Vector4{
       int a4[6];
14
       float b4[5][1];
15
  };
  struct Vector5{
       int a5[6];
18
       float b5[5];
19
  };
20
  int main(){
       struct Vector1 v1;
22
       struct Vector2 v2;
23
       struct Vector3 v3;
```

```
struct Vector4 v4;
struct Vector5 v5;
v1 = v2;
v2 = v3;
v3 = v4;
v4 = v5;
}
```

```
Error type 5 at line 28: Type mismatched for assignment
Error type 5 at line 30: Type mismatched for assignment
```

说明: 仅 2.3 分组同学需要测试该用例,需要输出上述的错误信息。

6 结束语

如果对本测试用例有任何疑议,可以写邮件与王慧妍助教联系,注意同时抄送给许老师。