

Compilation part 2:

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(1) קיימת פונקציה main בקוד והיא יחידה.

```
1  function void main()
2  {
3      var int b;
4      b = 5;
5  }
6
7  function void main()
8  {
9      var int a;
10     a = 4;
11 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ ./file < test.txt
[line:7] Code should have only one Main
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$
```

(2) main לא מקבל ארגומנטים והטיפוס שלה. void.

```
1  function int main(int x)
2  {
3      var int b;
4      b = 5;
5      return 0;
6  }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ ./file < test.txt
[line:1] Main type must be void not int
[line:1] Main function has no arguments
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$
```

(3) לא קיימות שתי פונקציות עם אותו שם באותו scope

```
1  function int foo(){
2      function void goo(int x, y){
3          x = x + y;
4      }
5      function char goo(char c){
6          c = 'f';
7          return c;
8      }
9      return 1;
10 }
11
12 function real foo(){
13     return 3.15;
14 }
15
16 function void main(){}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
Re-declaration of function (goo)
Re-declaration of function (foo)
2 Errors found
```

4) לא קיימים שני משתנים עם אותו שם באותו scope

```
1  function int foo(char y){
2      var int x, y;
3      var char x;
4      return 1;
5  }
6
7  function void main(){}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
Re-declaration of variable (x)
Re-declaration of variable (y)
2 Errors found
```

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$
```

(5) פונקציות הוגדרו לפני שמפעילים אותן.

```
1  function int foo(char y){
2      function char goo(){
3          return 'c';
4      }
5      return 1;
6  }
7
8  function void main(){
9      foo();
10     foo('c');
11     goo();
12     foo1();
13 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
[line:9] Undeclared function (foo) with unmatching arguments
[line:11] Undeclared function (goo) with unmatching arguments
[line:12] Undeclared function (foo1) with unmatching arguments
3 Errors found
```

(6) משתנים הוגדרו לפני שמשתמשים בהם.

```
1  function int foo(char y){
2      var int* p;
3      *p = t;
4      t = 5;
5      y = 'f';
6      return 1;
7  }
8
9  function void main(){}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידוחיל/compilation$ make run
```

```
make all
```

```
make[1]: Entering directory '/mnt/d/מידוחיל/compilation'
```

```
lex -o lex.yy.c src/file.l
```

```
yacc -d -o y.tab.c src/file.y
```

```
cc -o file y.tab.c -ll -ly
```

```
make[1]: Leaving directory '/mnt/d/מידוחיל/compilation'
```

```
./file < test.txt
```

```
[line:3] Undeclared variable [t]
```

```
[line:3] Assignment Error mismatch: can not assign undefined to INT
```

```
[line:4] Undeclared variable [t]
```

```
3 Errors found
```

7) מספר הארגומנטים האקטואליים שווה למספר הארגומנטים הפורמליים של הפונקציה, כמות הארגומנטים בקריאה לפונקציה צריכה להיות שווה לכמות הארגומנטים בהגדרת הפונקציה.

```
1 function int foo(int x, y;char z){
2     return 1;
3 }
4
5 function void main(){
6     foo();
7     foo(2, 3);
8     foo(2, 3, 't');
9 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
[line:6] Undeclared function (foo) with unmatched arguments
[line:7] Undeclared function (foo) with unmatched arguments
2 Errors found
```

8) טיפוסים של הארגומנטים בקריאה לפונקציה תואמים לטיפוסים בהגדרת הפונקציה.

```
1  function int foo(int* x, y;real* z){
2      return 1;
3  }
4
5  function void main(){
6      var int r, t;
7      var real q;
8      foo(&r, &t, &q);
9      foo(r, t, q);
10 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
[line:9] Undeclared function (foo) with unmatching arguments
1 Errors found
```

9) טיפוס הערך המוחזר מהפונקציה תואם לטיפוס ההחזרה המוכרז בכותרת של הפונקציה. וטיפוס ההחזרה של הפונקציה לא יכול להיות מחרוזת.

```
1  function int foo(int x;char y){
2      if(x > 5)
3          return x;
4      if(y == 'g')
5          return y;
6      return 3.5;
7  }
8
9  function char* goo(){
10     return "hello";
11 }
12
13 function void main(){}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt

[line:1] Function (foo) return invalid value
[line:9] Function (goo) return invalid value
2 Errors found
```


(10) טיפוס הערך המוחזר מהפונקציה תואם לטיפוס המשתנה שלתוכו
נכנס הערך שמוחזר מהפונקציה.

```
1  function int foo(int x;char y){
2      return 3;
3  }
4
5  function int* goo(){
6      var int* x;
7      *x = 5;
8      return x;
9  }
10
11 function void main(){
12     var int x;
13     var char y;
14     var int* ptr;
15     x = foo(x, '$');
16     y = foo(x, '$');
17     x = goo();
18     ptr = goo();
19 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -Ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
[line:16] Assignment Error mismatch: can not assign INT to CHAR
[line:17] Assignment Error mismatch: can not assign INT* to INT
2 Errors found
```

```

1  function void main(){
2      var int x;
3      var bool y = true;
4      if(x > 5){
5          x = 4;
6      }
7      if(y){
8          if(x + 3){
9              x = 6;
10         }
11     }
12     if(false)
13         y = false;
14     if('g'){
15         x = 4;
16     }
17 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt

[line:8] IF-condition must return type BOOL
[line:14] IF-condition must return type BOOL
2 Errors found

```

טיפוס התנאי ב , while ב do-while וב for -הוא מטיפוס bool (12

While:

```
1  function void main(){
2      var int x = 3;
3      var bool y = true;
4      while (y){
5          x = 4;
6      }
7      while (x == 4){
8          x = 4;
9      }
10     while (true && y)
11         y = false;
12     while ('g'){
13         x = 4;
14     }
15     while(5 + x){
16         y = true;
17     }
18 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt

[line:12] WHILE-condition must return type BOOL
[line:15] WHILE-condition must return type BOOL
2 Errors found
```

Do-while:

```
1  function void main(){
2      var int x = 3;
3      var bool y = true;
4      do {
5          x = 4;
6      } while (y);
7      do {
8          x = 4;
9      } while (x == 4);
10     do{
11         y = false;
12     } while (true && y);
13     do {
14         x = 4;
15     } while ('g');
16     do{
17         y = true;
18     }while(5 + x);
19 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידות/ל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידות/ל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידות/ל/compilation'
./file < test.txt
```

```
[line:15] DO-WHILE-condition must return type BOOL
[line:18] DO-WHILE-condition must return type BOOL
2 Errors found
```

For:

```
1  function void main(){
2      var int i;
3      var int x = 0;
4      var bool y = true;
5      for(i = 0; i < 10; i = i + 1){
6          x = x + 5;
7      }
8      for(i = 'f'; i < 10; i = i + 1){
9          x = x + 6;
10     }
11     for(i = 0; i ; i = i + 1){
12         x = x + 7;
13     }
14     for(i = 0; i < 10; i = y){
15         x = x + 8;
16     }
17     for(i = 0; i < 10 && y || false; i = i + 1){
18         x = x + 5;
19     }
20 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידות/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידות/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידות/compilation'
./file < test.txt
```

```
[line:8] Assignment Error mismatch: cannot assign CHAR to INT
[line:8] FOR-init must initialized with type INT
[line:11] FOR-condition must return type BOOL
[line:14] Assignment Error mismatch: cannot assign BOOL to INT
[line:14] FOR-increment must return type INT
5 Errors found
```

(13) טיפוס הביטוי המופיע כאינדקס ב- [] של מחרוזת הוא מטיפוס .int

```
1  function void main(){
2      string s[10];
3      string s1['d'];
4      var int x = 2;
5      var char y = 'd';
6      s[x] = 'g';
7      s[x + 5] = y;
8      s[y] = 'v';
9      s[3.5] = 'z';
10     s[4] = s['d'];
11     s[2] = s[3];
12 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
[line:3] Size of string must be type INT not CHAR
[line:8] Size of string must be type INT not CHAR
[line:9] Size of string must be type INT not REAL
[line:10] Size of string must be type INT not CHAR
[line:10] Assignment Error mismatch: must assign CHAR to cell of string array not NULL
5 Errors found
```

(14) לא משתמשים באופרטור [] בשום טיפוס חוץ ממחרוזת.

```
1  function void main(){
2      string s[10];
3      var int x = 2;
4      var real* y;
5      s[x] = 'g';
6      x[4] = 4;
7      y[x] = 'r';
8  }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt

[line:6] INT can not have index
[line:7] REAL* can not have index
2 Errors found
```

(15) טיפוס של המשתנה מצד שמאל של האופרטור השמה (=) תואם לטיפוס הביטוי מצד ימין. לתאים של המחזורות מותר להכניס רק תווים ו NULL יכול להיות רק מטיפוס מצביע ל – char, real, int.

```
1  function void main(){
2      string s[10];
3      var int x = 2;
4      var real r = 3.5;
5      var real* y = null;
6      var bool z = 2;
7      var bool z1 = true;
8      s[x] = 'g';
9      s[4] = 4;
10     z1 = 3.15;
11     x = null;
12     *y = 3.5;
13     y = &r;
14     y = null;
15     y = &z1;
16 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -Ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
[line:6] Assignment Error mismatch: can not assign INT to BOOL
[line:9] Assignment Error mismatch: must assign CHAR to cell of string array not INT
[line:11] Assignment Error mismatch: can not assign NULL to INT
[line:15] Can not perform & on [BOOL] - [&z1]
4 Errors found
```


עבור (/ * - +)

```

1  function void main(){
2      var int x = 2;
3      var real r = 3.5;
4      var char c = 'g';
5      x = x + 1;
6      r = 3.15 - x;
7      r = c * 8;
8      x = c / 2;
9  }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt

```

```

[line:7] Can not perform [*] between [CHAR] and [INT] - [c * 8]
[line:7] Assignment Error mismatch: can not assign NULL to REAL
[line:8] Can not perform [/] between [CHAR] and [INT] - [c / 2]
[line:8] Assignment Error mismatch: can not assign NULL to INT
4 Errors found

```

עבור (|| &&)

```

1  function void main(){
2      var int x = 2;
3      var bool r = true;
4      r = (r == false) && (x > 4);
5      r = (x || 4);
6  }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt

```

```

[line:5] Can not perform [||] between [INT] and [INT] - [x || 4]
[line:5] Assignment Error mismatch: can not assign NULL to BOOL
2 Errors found

```

עבור (<= , >= , < , >)

```
1 function void main(){
2     var int x = 2;
3     var real y = 3.5;
4     var bool r = true;
5     r = x > 2;
6     r = 5 < 9;
7     r = (x <= y);
8     r = (r >= false);
9 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
[line:7] Can not perform [<=] between [INT] and [REAL] - [x <= y]
[line:7] Assignment Error mismatch: can not assign NULL to BOOL
[line:8] Can not perform [>=] between [BOOL] and [BOOL] - [r >= false]
[line:8] Assignment Error mismatch: can not assign NULL to BOOL
4 Errors found
```

עבור (!= , ==)

```
1 function void main(){
2     var int x = 2;
3     string s[10] = "hello";
4     var int* y = null;
5     var bool r = true;
6     r = x == 2;
7     r = 5 != 9;
8     r = s[1] == s[5];
9     r = x == true;
10    r = y != x;
11    r = *y == x;
12 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
[line:9] Can not perform [==] between [INT] and [BOOL] - [x == true]
[line:9] Assignment Error mismatch: can not assign NULL to BOOL
[line:10] Can not perform [!=] between [INT*] and [INT] - [y != x]
[line:10] Assignment Error mismatch: can not assign NULL to BOOL
4 Errors found
```

עבור (! , | length |)

```
1  function void main(){
2      var int x = 2;
3      string s[10] = "hello";
4      var int* y;
5      var bool r = true;
6      x = |s|;
7      r = |s|;
8      *y = |s| + 5;
9      r = !true;
10     r = !x;
11 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt

[line:7] Assignment Error mismatch: can not assign INT to BOOL
[line:10] Can not perform ! on [INT] - [!x]
[line:10] Assignment Error mismatch: can not assign NULL to BOOL
3 Errors found
```

אפשר רק להוסיף או להפחית int ממצביע.

(17

```
1  function void main(){
2      var int x = 2;
3      var real* y = null;
4      var char* t = null;
5      y = y - x;
6      t = t + 2 + 3;
7      t = t - 3.5;
8      y = y * x;
9  }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt

[line:7] Can not perform [-] between [CHAR*] and [REAL] - [t - 3.5]
[line:7] Assignment Error mismatch: can not assign NULL to CHAR*
[line:8] Can not perform [*] between [REAL*] and [INT] - [y * x]
[line:8] Assignment Error mismatch: can not assign NULL to REAL*
4 Errors found
```

(18) אופרטור & מופעל רק על משתנים מטיפוס int , real , char או .string[i]

```
1  function void main(){
2      var int x = 2;
3      var int* y = null;
4      string s[10] = "hello";
5      var char* p;
6      p = &s[5];
7      y = &x;
8      s[4] = &y;
9      p = &s;
10 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt
```

```
[line:8] Can not perform & on [INT*] - [&y]
[line:8] Assignment Error mismatch: must assign CHAR to cell of string array not NULL
[line:9] Can not perform & on [STRING] - [&s]
[line:9] Assignment Error mismatch: can not assign NULL to CHAR*
4 Errors found
```

```
1  function void main(){
2      var int x;
3      var int* y;
4      var char* t;
5      var char z;
6      *y = 9;
7      x = *z;
8      y = *(x - 5);
9      *t = 'y';
10     x = *(y - 5);
11 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
sean@DESKTOP-17AKS3Q:/mnt/d/מידומיל/compilation$ make run
make all
make[1]: Entering directory '/mnt/d/מידומיל/compilation'
lex -o lex.yy.c src/file.l
yacc -d -o y.tab.c src/file.y
cc -o file y.tab.c -ll -ly
make[1]: Leaving directory '/mnt/d/מידומיל/compilation'
./file < test.txt

[line:7] [CHAR] is not pointer
[line:7] Assignment Error mismatch: can not assign NULL to INT
[line:8] [INT] is not pointer
[line:8] Assignment Error mismatch: can not assign NULL to INT*
4 Errors found
```