

# פרויקט קומפילציה – חלק שני

## שמות המגישים:

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## דוגמאות הרצה:

בתוכנית שלנו אנו משתמשים ב- makefile לכן הודעות השגיאה יופיעו בחלון ה- terminal בשורה מספר 4

(1) קיימת פונקציה main בקוד והיא יחידה :

```
part2 ▸ input.code
1  function void main(){
2
3  }
4  function void main(){
5
6  }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
syntax error: found line:4 unexpected token: "function"
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
```

≡ input.code

```
1  function void not_main(){  
2  
3  }  
4
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
make all  
make[1]: Entering directory '/mnt/d/school/projects/compi/2019/part2'  
make[1]: Leaving directory '/mnt/d/school/projects/compi/2019/part2'  
legal program must have main!  
makefile:10: recipe for target 'run' failed  
make: *** [run] Error 1
```

□

( 2 ) main לא מקבל ארגומנטים והטיפוס שלו void :

```
part2 ▾ input.code
1 | function int main(){
2 |
3 | }
4 |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
syntax error: found line:2 unexpected token: "main"
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

```
part2 ▾ input.code
1 | function void main(int x){
2 |
3 | }
4 |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
syntax error: found line:1 unexpected token: "int"
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

3 ( לא קיימות שתי פונקציות עם אותו שם באותו scope

```
part2 ▸ ≡ input.code
1  function void main(){
2      function int foo(){
3          return 0;
4      }
5      function real foo(){
6          return 0;
7      }
8  }
9
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 7: id: [foo] already declared in scope
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

4 ( לא קיימים שני משתנים עם אותו שם באותו scope

```
part2 ▸ ≡ input.code
1  function void main(){
2      var int x;
3      var real x;
4  }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
x is already declared
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

5 ( פונקציות הוגדרו לפני שמפעילים אותן

```
part2 ▸ ≡ input.code
1  function void main(){
2      foo();
3  }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 2: foo is undefined
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

## 6 ( משתנים הוגדרו לפני שמשתמשים בהם

```
part2 ▸ input.code
1  function void main(){
2      |
3      |   var int x;
4      |   x=y;
5      |
6      |
7      |
8      |
9      |
10     }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 3: y is undefined
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

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

```
part2 ▸ input.code
1  function void main(){
2      |
3      |   function int foo(int x,y; real z){
4      |       |
5      |       |   return 0;
6      |       |
7      |       |
8      |       |
9      |       |
10      |       |
11      |   }
12      |
13      |   var int a,b;
14      |   foo(a,b);
15      |
16      |
17      |
18      |
19      |
20      |
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91      |
92      |
93      |
94      |
95      |
96      |
97      |
98      |
99      |
100     }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 6: in function: foo expected: 3 arguments and got: 2
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

8 ) טיפוסים של הארגומנטים בקריאה לפונקציה תואמים לטיפוסים בהגדרת הפונקציה

```
part2 ▸ ≡ input.code
1  function void main(){
2      function int foo(int x,y; real z){
3          return 0;
4      }
5      var real a,b,c;
6      foo(a,b,c);
7  }
8
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 6: wrong argument type in function call : foo
in argument x expected integer and got real
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

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

```
part2 ▸ ≡ input.code
1  function void main(){
2      function int foo(){
3          return "string";
4      }
5
6  }
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Terminal (Ctrl+;)

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 3: function: foo cannot return string
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

```

part2 ▸ ≡ inputcode
1  function void main(){
2      function int foo(){
3          var char x = 'a';
4          return x;
5      }
6
7  }
8

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: function foo expected integer return type, but got char type instead
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1

```

```

part2 ▸ ≡ inputcode
1  function void main(){
2      function int* foo(){
3          var int x = 6;
4          return x;
5      }
6
7  }
8

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: function foo expected int ptr return type, but got integer type instead
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1

```



```
part2 ▸ ≡ input.code
1  function void main(){
2      function real* foo(){
3          var real x = 6.1;
4          return x;
5      }
6  }
7
8
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: function foo expected real ptr return type, but got real type instead
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

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

```
part2 ▸ ≡ input.code
1  function void main(){
2      function int foo(){
3          var int x = 6;
4          return x;
5      }
6      var char y;
7      y = foo();
8
9  }
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 7: y is char cannot assign integer
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

```
part2 ▸ ≡ input.code
1  function void main(){
2      if(4){
3
4      }
5
6  }
7  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 6: IF condition must be of boolean type not integer
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

```
part2 ▸ ≡ input.code
1  function void main(){
2      if("string"){
3
4      }
5
6  }
7  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 6: IF condition must be of boolean type not string
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

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

```
part2 ▸ ≡ input.code
1  function void main(){
2      while("string"){
3
4      }
5
6  }
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: WHILE condition must be of boolean type not string
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

```
part2 ▸ ≡ input.code
1  function void main(){
2      do{
3
4      }while("string");
5
6  }
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: DO-WHILE condition must be of boolean type not string
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

```
part2 ▸ ≡ input.code
1  function void main(){
2  |     for(var int x=1; 2.4; x = x + 1){}
3  |     }
4  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 2: FOR condition must be of boolean type not real
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

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

```
part2 ▸ ≡ input.code
1  function void main(){
2  |     string a[30];
3  |     a[5 + 5.6];
4  |     }
5  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 3: operator: [] can contain only int, but id: a got type: real
bmakefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

```
part2 ▸ ≡ input.code
1  function void main(){
2      string a[30];
3      a['c'];
4  }
5  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 3: operator: [] can contain only int, but id: a got type: char
bmakefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

14 ) לא משתמשים באופרטור [] בשום טיפוס חוץ ממחרוזת

```
part2 ▸ ≡ input.code
1  function void main(){
2      string a[30];
3      var int x;
4      a[5] = 'g';
5      x[6];
6  }
7  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 5: operator: [] can be used only on strings, but used on: x with type: integer
bmakefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

15) ( טיפוס של המשתנה מצד שמאל של האופרטור השמה ) = ( תואם לטיפוס הביטוי מצד ימין. לשים לב שלתאים של המחרוזת מותר להכניס רק תווים ו- NULL יכול להיות רק מטיפוס מצביע ל- int, ל- real או ל- char.

```
part2 ▸ ≡ input.code
1  function void main(){
2      string a[30];
3      var int* x = null;
4      var real* y = null;
5      var char* z = null;
6      var int g = null;
7
8
9  }
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 6: g is integer cannot assign null
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

```
part2 ▸ ≡ input.code
1  function void main(){
2      string a[30];
3      var int* x = null;
4      var real* y = null;
5      var char* z = null;
6      var int g = x;
7
8
9  }
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 6: g is integer cannot assign int ptr
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

```
part2 ▸ ≡ input.code
1  function void main(){
2      string a[30];
3      var int* x = null;
4      var real* y = null;
5      var char* z = null;
6      var int g = 'x';
7
8  }
9
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 6: g is integer cannot assign char
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

16 ( טיפוסים בביטויים (expressions) תואמים. הכללים הם:

- עבור אופרטורים (+, -, \*, /), האופרנדים יכולים להיות int או real והתוצאה היא int אם שני האופרנדים מטיפוס int, אחרת הטיפוס של הביטוי הוא real

```
part2 ▸ ≡ input.code
1  function void main(){
2      var int x;
3      var real y;
4      x = x + x;
5      x = x - x;
6      y = x + y;
7      x = x + y;
8
9  }
10
11
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 7: x is integer cannot assign real
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

- עבור אופרטורים (`&&`, `||`) שני האופרנדים חייבים להיות `bool` והתוצאה היא `bool`

```
part2 ▸ ≡ input.code
1  function void main(){
2      var bool x;
3      var real y;
4      y = x || x;
5  }
6  ▶
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: y is real cannot assign boolean
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

```
part2 ▸ ≡ input.code
1  function void main(){
2      var bool x;
3      var real y;
4      y = x && x;
5  }
6  ▶
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: y is real cannot assign boolean
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```



```
part2 ▸ ≡ input.code
1  function void main(){
2      var int x;
3      var real y;
4      y = x || x;
5  }
6
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: cannot || between integer and integer
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

- עבור האופרטורים (>,<=>,<,>) האופרנדים חייבים להיות int או real והתוצאה היא bool

```
part2 ▸ ≡ input.code
1  function void main(){
2      var bool x;
3      var real y;
4      var bool z;
5      x = z <= y;
6  }
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 5: cannot <= between boolean and real
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

```
part2 ▸ ≡ input.code
1  function void main(){
2      var bool x;
3      var real y;
4      var int z;
5      z = z <= y;
6  }
7  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 5: z is integer cannot assign boolean
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

• עבור האופרטורים ( $!=$ ,  $==$ ) שני האופרנדים יכולים להיות שני int, שני bool, שני real, שני

char או שני מצביעים לאותו טיפוס. התוצאה היא

```
part2 ▸ ≡ input.code
1  function void main(){
2      var char x;
3      var real y;
4      var bool z;
5      z = x == y;
6  }
7  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 5: cannot == between char and real
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

```
part2 ▸ ≡ input.code
1  function void main(){
2      var int* x;
3      var real y;
4      var bool z;
5      y = x == x;
6  }
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 5: y is real cannot assign boolean
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

- אופרטור ערך מוחלט (| |) יכול להיות מופעל על מחרוזות והתוצאה היא int

```
part2 ▸ ≡ input.code
1  function void main(){
2      var int* x;
3      string y[30];
4      |x|;
5
6  }
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: cannot get len of int ptr
[]
```

```
part2 ▸ ≡ input.code
1  function void main(){
2      var int* x;
3      string y[30];
4      x = |y|;
5
6  }
7  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: x is int ptr cannot assign integer
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

- אופרטור (!) יכול להיות מופעל על bool והתוצאה היא bool

```
part2 ▸ ≡ input.code
1  function void main(){
2      var int x;
3      var bool b;
4      x = !b || b ;
5
6  }
7  ▸
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 4: x is integer cannot assign boolean
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
[]
```

part2 ▾ input.code

```
1  function void main(){  
2      var int x;  
3      var bool b;  
4      b = !x ;  
5  
6  }  
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all  
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'  
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'  
line 4: cannot ! on integer  
□
```

≡ input.code

```
1 function void main(){
2     var int* x;
3     x = x + 3;
4     x = x - 3;
5     x = x + 'a';
6 }
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/school/projects/compi/2019/part2'
make[1]: Leaving directory '/mnt/d/school/projects/compi/2019/part2'
line 5: you can only add/reduce integer from pointer, but used char
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
```

□

part2 ▾ input.code

```
1  function void main(){
2      var int x;
3      var real y;
4      var char z;
5      string t[50];
6      var int* g;
7
8      &x;
9      &y;
10     &z;
11     &t[5];
12     &g;
13
14 }
15
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 12: & operator can only be used on char,real,int or string[index] but used on: g with type: int ptr
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```

part2 ▾ input.code

```
1  function void main(){
2      var int* x;
3      var real* y;
4      var char* z;
5      string t[50];
6
7
8      *x;
9      *y;
10     *z;
11     *t;
12
13
14 }
15
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
make all
make[1]: Entering directory '/mnt/d/Desktop/compi/part2'
make[1]: Leaving directory '/mnt/d/Desktop/compi/part2'
line 11: operator * can only be used on pointers but used on string
makefile:10: recipe for target 'run' failed
make: *** [run] Error 1
□
```