עזאלדין אלקרעאן : 207101429

עומאר חמדיה : 206635922

ריזק אבו מדיעים : 211606801

```
1
2 proc Main(){
3 var x:int;
4 }
5
6 proc Main(){
7 var x:int;
8 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error: function main already exist!
izadeenalkoran@ubuntu:~/Downloads$
```

```
1
2 proc foo(){
3 var x:int;
4 }
5
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error: missing main function!
izadeenalkoran@ubuntu:~/Downloads$
```

```
1 proc Main(x:int){
2
3 var y,z:string[10];
4 }
5
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error: function main dose not accept arguments!
izadeenalkoran@ubuntu:~/Downloads$
```

```
1
2 proc foo(d:int){
3 var x:int;
4 }
5 proc foo(){
6 var x:int;
7 }
8
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 5 func foo already exist!
izadeenalkoran@ubuntu:~/Downloads$
```

```
1
2 proc foo(d:int){
3 var x:int;
4 var x:char;
5 }
6 proc Main(){
7 var x:int;
8 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 4 parameter x already exist!
izadeenalkoran@ubuntu:~/Downloads$
```

```
1
2 proc Main(){
3 var x:int;
4 x=foo();
5 }
6
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 4 id 'foo' is not declared!
izadeenalkoran@ubuntu:~/Downloads$
```

```
1
2 proc Main(){
3 x=10+9;
4 }
5
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 3 id 'x' is not declared!
izadeenalkoran@ubuntu:~/Downloads$
```

```
1
2 proc foo(d,a:int;f,g:char){
3 var x:int;
4
5 }
6 proc Main(){
7 var x,b:int;
8 foo(x,b);
9 }
10
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 wrong number of parameters for function 'foo' call
izadeenalkoran@ubuntu:~/Downloads$
```

```
1
2 proc foo(d,a:int;f,g:char){
3 var x:int;
4
5 }
6 proc Main(){
7 var x,b:int;
8 foo(x,b,'k',2);
9 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 wrong function parameter type for 'foo' call
izadeenalkoran@ubuntu:~/Downloads$
```

```
1
2 func foo( )return int{
3 var x:int;
4 return 'k';
5 }
6 proc Main(){
7 var x,b:int;
8 foo();
9 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 4 mismatching return type for func 'foo'
izadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo(x,y:int) return string
2 {
3 var a:string[20];
4 return a;
5 }
6 proc Main()
7 {
8
9 }
```

```
rezeq@rezeq-VirtualBox:~$ ./compiler < inp.txt
error:line: 1 The return type of function cannot be a string
rezeq@rezeq-VirtualBox:~$
```

```
1
2 func foo( )return int{
3 var x:int;
4 return x;
5 }
6 proc Main(){
7 var x,b:char;
8 x=foo();
9 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error: asingment types doesn't match!

(= x (FUNC CALL foo ))
izadeenalkoran@ubuntu:~/Downloads$
```

```
1
2 func foo( )return int{
3 var x:int;
4 return x;
5 }
6 proc Main(){
7 var x,b:char;
8 if(10+9){
9 x='k';
10 }
11 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 if expression is not boolean

(+ 10 9 )
izadeenalkoran@ubuntu:~/Downloads$
```

```
1
2 func foo( )return int{
3 var x:int;
4 return x;
5 }
6 proc Main(){
7 var x,b:char;
8 while(10+9){
9 x='k';
10 }
11 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 while expression is not boolean

(+ 10 9 )
izadeenalkoran@ubuntu:~/Downloads$
```

```
1 proc Main(){
2 var x:char;
3 var y,z:string[10];
4 x=y[10==10];
5 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 4 wrong index in opertator y[]
izadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:char;
7 b=x[1];
8
9 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 7 wrong opertator [] 'x' not string
izadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:char;
7 var d:int;
8 d=null;
9 }
10
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error: asingment types doesn't match!

(= d null )
izadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:char;
7 var d:int;
8 b=d+10;
9 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error: asingment types doesn't match!

(= b
|  (+ d 10 )
)
izadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:char;
7 var d:int;
8 d=d*b;
9 }
```

```
tzadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 operator '*' have wrong types
tzadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:char;
7 var d:bool;
8 d=d && b;
9 }
```

```
tzadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 operator 'AND' have wrong types
tzadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:char;
7 var d:bool;
8 x=x >= b;
9 }
```

```
tzadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 operator '>=' have wrong types
tzadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:char;
7 var d:bool;
8 d=x == 9;
9 }
```

```
tzadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 operator '==' have wrong types
tzadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:char;
7 var d:int;
8 d=|x|;
9 }
```

```
tzadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 operator ABS is used on wrong type of id 'x'
tzadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:char;
7 var d:bool;
8 d=!x;
9 }
```

```
tzadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 operator '!' have wrong types
tzadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:int*;
7 var d:int;
8 d=&x;
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
error:line: 8 rference wrong type: 'x'
izadeenalkoran@ubuntu:~/Downloads$
```

```
1 func foo()return int{
2 var x:int;
3 return x;
4 }
5 proc Main(){
6 var x,b:int*;
7 var d:int;
8 x=^d;
9 }
```

```
izadeenalkoran@ubuntu:~/Downloads$ ./out<x.txt
(^ d )error:line: 8 derference wrong id 'd' type
izadeenalkoran@ubuntu:~/Downloads$
```