

```
Last login: Sat Sep 26 15:41:57 on ttys002
derektram@Raelyns-MBP ~ % cd Desktop/CSCI465
derektram@Raelyns-MBP CSCI465 % cd miniPascalV1
derektram@Raelyns-MBP miniPascalV1 % ant run
Buildfile: /Users/derektram/Desktop/CSCI465/miniPascalV1/build.xml
```

clean:

```
[delete] Deleting directory /Users/derektram/Desktop/CSCI465/miniPascalV1/build
```

init:

```
[mkdir] Created dir: /Users/derektram/Desktop/CSCI465/miniPascalV1/build
```

compile:

```
[javac] Compiling 6 source files to /Users/derektram/Desktop/CSCI465/miniPascalV1/build
```

```
[javac] Creating empty /Users/derektram/Desktop/CSCI465/miniPascalV1/build/LexicalAnalyzer/package-info.class
```

run:

```
[java] Could not compile.
[java] Unrecognized token: d
[java] Found on line: 24
```

BUILD FAILED

/Users/derektram/Desktop/CSCI465/miniPascalV1/build.xml:25: Java returned: 1

Total time: 1 second

```
derektram@Raelyns-MBP miniPascalV1 % ant run
```

Buildfile: /Users/derektram/Desktop/CSCI465/miniPascalV1/build.xml

clean:

```
[delete] Deleting directory /Users/derektram/Desktop/CSCI465/miniPascalV1/build
```

init:

```
[mkdir] Created dir: /Users/derektram/Desktop/CSCI465/miniPascalV1/build
```

compile:

```
[javac] Compiling 6 source files to /Users/derektram/Desktop/CSCI465/miniPascalV1/build
```

```
[javac] Creating empty /Users/derektram/Desktop/CSCI465/miniPascalV1/build/LexicalAnalyzer/package-info.class
```

run:

```
[java]
[java] LEXEME           SPELLING
[java]
[java] PROGRAM            program
[java] ID                 example
[java] LAPREN             (
[java] ID                 input
```

[java] COMMA	,
[java] ID	output
[java] RPAREN)
[java] SEMICOLON	;
[java] VAR	var
[java] ID	x
[java] COMMA	,
[java] ID	y
[java] COLON	:
[java] INTTYPE	integer
[java] SEMICOLON	;
[java] ID	n
[java] COLON	:
[java] ARRAY	array
[java] LSQBRACKET	[
[java] INTLIT	1
[java] RANGE	..
[java] INTLIT	20
[java] RSQBRACKET]
[java] OF	of
[java] INTTYPE	integer
[java] SEMICOLON	;
[java] ID	hi
[java] ASSIGN	:=
[java] STRLIT	'Hello, World!'
[java] COLON	:
[java] STRTYPE	string
[java] SEMICOLON	;
[java] ID	q
[java] ASSIGN	:=
[java] CHRLIT	'q'
[java] COLON	:
[java] CHRTYPE	char
[java] SEMICOLON	;
[java] ID	result
[java] ASSIGN	:=
[java] BOOLLIT	true
[java] COLON	:
[java] BOOLTYPE	boolean
[java] SEMICOLON	;
[java] ID	antiresult
[java] ASSIGN	:=
[java] BOOLLIT	false
[java] COLON	:
[java] BOOLTYPE	boolean
[java] SEMICOLON	;
[java] ID	pi
[java] ASSIGN	:=
[java] REALLIT	3.14159
[java] COLON	:
[java] REALTYPE	real
[java] SEMICOLON	;

[java] ID	arrayOfChars
[java] COLON	:
[java] ARRAY	array
[java] LSQBRACKET	[
[java] INTLIT	1
[java] RANGE	..
[java] INTLIT	5
[java] RSQBRACKET]
[java] OF	of
[java] CHRTYPE	char
[java] SEMICOLON	;
[java] FUNCTION	function
[java] ID	gcd
[java] LAPREN	(
[java] ID	a
[java] COMMA	,
[java] ID	b
[java] COLON	:
[java] INTTYPE	integer
[java] RPAREN)
[java] COLON	:
[java] INTTYPE	integer
[java] SEMICOLON	;
[java] BEGIN	begin
[java] WHILE	while
[java] ID	b
[java] LT	<
[java] INTLIT	10
[java] DO	do
[java] BEGIN	begin
[java] IF	if
[java] LAPREN	(
[java] ID	a
[java] GT	>
[java] INTLIT	0
[java] RPAREN)
[java] THEN	then
[java] ID	a
[java] ASSIGN	:=
[java] ID	a
[java] PLUS	+
[java] INTLIT	1
[java] SEMICOLON	;
[java] IF	if
[java] LAPREN	(
[java] ID	b
[java] NE	<>
[java] MINUS	-
[java] INTLIT	1
[java] RPAREN)
[java] THEN	then
[java] ID	b

[java] ASSIGN	:=
[java] ID	a
[java] MULT	*
[java] INTLIT	2
[java] SEMICOLON	;
[java] IF	if
[java] LAPREN	(
[java] ID	c
[java] GTE	>=
[java] INTLIT	0
[java] RPAREN)
[java] THEN	then
[java] ID	c
[java] ASSIGN	:=
[java] ID	b
[java] MINUS	-
[java] ID	a
[java] SEMICOLON	;
[java] IF	if
[java] LAPREN	(
[java] ID	d
[java] LTE	<=
[java] INTLIT	1000
[java] RPAREN)
[java] THEN	then
[java] ID	d
[java] ASSIGN	:=
[java] ID	a
[java] DIVIDE	/
[java] ID	c
[java] MOD	mod
[java] INTLIT	2
[java] SEMICOLON	;
[java] ELSE	else
[java] ID	e
[java] ASSIGN	:=
[java] MINUS	-
[java] INTLIT	200
[java] SEMICOLON	;
[java] END	end
[java] SEMICOLON	;
[java] END	end
[java] SEMICOLON	;
[java] BEGIN	begin
[java] ID	read
[java] LAPREN	(
[java] ID	x
[java] COMMA	,
[java] ID	y
[java] RPAREN)
[java] SEMICOLON	;
[java] ID	write

```
[java] LAPREN      (  
[java] ID          gcd  
[java] LAPREN      (  
[java] ID          x  
[java] COMMA       ,  
[java] ID          y  
[java] RPAREN      )  
[java] RPAREN      )  
[java] SEMICOLON   ;  
[java] ID          write  
[java] LAPREN      (  
[java] ID          hi  
[java] RPAREN      )  
[java] END         end  
[java] PERIOD      .
```

BUILD SUCCESSFUL

Total time: 2 seconds

derektrom@Raelyns-MBP miniPascalV1 %