

## Data flow testing

### *Program SolveQuadratic*

```
1  SolveQuadratic
2  float A, B, C, D, x1, x2
3  boolean is_complex
4  input( A, B, C )
5  D = B*B - 4*A*C
6  if D < 0.0
7      then is_complex = T
8      else is_complex = F
9  endif
10 if not is_complex
11     then x1 = (-B + sqrt( D )) / (2.0*A)
12         x2 = (-B - sqrt( D )) / (2.0*A)
13 endif
14 end SolveQuadratic
```

### List occurrences & assign a category to each variable

line	category		
	definition	c-use	p-use
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

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```

**Identify du-pairs and their use (p- or c- )**

definition - use pair	variable(s)	
start line -> end line	c-use	p-use

**Specify all “All-definitions” test cases**

			Inputs			Expected outcome		
variable(s)	du-pair	sub-path	A	B	C	is_complex	x1	x2