The Two Operation Types

PRACTICE ASSIGNMENT

Given the following variable declarations:

```
int a=2, b=5;
double c=2.0, d=0.0, e=-4.0;
boolean f=true;
String g="gee", h="h";
```

For each variable assignment below, specify the narrowest type for the variable and the final value assigned to it:

Example:

Type	JAVA Code	Value Assigned
int	z=a+b;	7
double	y=a+d;	2.0

Problem Set:

Problem #	Type	JAVA Code	Value Assigned
1		x=a>e;	
2		w=a<e && f;	
3		v=d*8;	
4		u=a+a+h;	
5		t=a+d+h;	
6		s=a+g+b+e;	
7		r=(a>d && f)+g+(a*e);	
8		q=b/a;	
9		p=b/c;	
10		o=a*a/b;	
11		n=a*c/b;	
12		m=(int)(a*c)/b;	
13		l=b/a==b/c;	
14		k=e/a==e/c;	
15		j=h+(b+c==b+a);	
16		i=a+c+((b/c>b/a)+g);	

Answer Key:

Problem #	Type	JAVA Code	Value Assigned
1	boolean	x=a>e;	true
2	boolean	w=a<e && f;	false
3	double	v=d*8;	0.0
4	String	u=a+a+h;	4h
5	String	t=a+d+h;	2.0h
6	String	s=a+g+b+e;	2gee5-4.0
7	String	r=(a>d && f)+g+(a*e);	truegee-8.0
8	int	q=b/a;	2
9	double	p=b/c;	2.5
10	int	o=a*a/b;	0
11	double	n=a*c/b;	0.8
12	int	m=(int)(a*c)/b;	0
13	boolean	l=b/a==b/c;	false
14	boolean	k=e/a==e/c;	true
15	String	j=h+(b+c==b+a);	htrue
16	String	i=a+c+((b/c>b/a)+g);	4.0truegee