ICS Homework Week 7

October 11, 2022

1. **Type Casting** Assume we are using **64-bit machine**. Consider the following program.

```
char a = -6;
unsigned char b = a;
unsigned short c = a;
int d = a;
short e = 0xcafe;
unsigned char f = e;
unsigned int g = e;
```

Write the value of variables below in decimal.

Variable	Value	
a	-6	
b	250	
С	65530	
d	-6	
e	-13570	
f	254	
g	4294953726	

2. Value Comparison Assume int value is encoded using 16 bits. Please fill in the following table with "<",">" or "=". *U* means the constant is unsigned.

Constant A	Constant B	A ? B
-2U	-1U	<
-1	1	<
-1	100U	>
-1	65535U	=
-32767	32768U	>