

HW 13

Type Casts

Name: _____ Time spent: _____ min

1) Briefly describe the 3 types of type conversion

30 pts

2) Evaluate each statement and indicate the type of the result

40 pts

```
int a;
```

```
int b;
```

```
int foo;
```

```
a = 4;
```

```
b = 5;
```

```
float c;
```

```
float d;
```

```
float boo;
```

```
c = 1.1;
```

```
d = 2.2;
```

```
char e;
```

```
char f;
```

```
char soo;
```

```
e = 'a'
```

```
f = 'C'
```

```
boo = b - a;
```

```
foo = c / d;
```

```
boo = b % (int) c + 2;
```

```
soo = 1 / e;
```

Value

Type

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3) provide a single code statement to achieve each result

30 pts

```
int a;    int b;    int c;  
float d;  float e;  float f;  
char g;   char h;
```

Two solutions to ensure $d = 1/a$ does not evaluate to 0

set d equal to the number of whole cups of Cheerios in a box if e is the density of Cheerios in cups/volume and f is the volume in a box