# Evaluating Expressions in C

Design of Embedded Computer Systems

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The following codes were compiled without errors.

When they were executed,

each generated an output.

Could you please say for each one, what is the output generated justifying your response?

```
#include <stdio.h>
int x,
a = 0, b = 1, c = 32, d = 4, e = 1, f = 2;
int
main()
{
x = a \mid \mid b == c \&\& d << e + f;
printf( "%d\n", x );
return 0;
} /* main */
```

### Problem № 2

```
#include <stdio.h>
int
main()
int result, w = 3, x = 8, y = 4, z = 3;
result = w*x / y*z;
printf( "%d\n", result );
return 0;
} /* main */
```

```
#include <stdio.h>
int a[5] = \{ 0, 1, 2, 3, 4 \};
int b[5] = \{ 5, 6, 7, 8, 9 \};
int
main()
int result, i = 2;
result = a[i++] + b[i];
printf( "%d\n", result );
return 0;
} /* main */
```

```
#include <stdio.h>
int n = -6;
unsigned m = 3;
int result;
main()
result = n/m;
printf( "%d\n", result );
return 0;
} /* main */
```

```
#include <stdio.h>
int
main()
float a = 0.2, b = 0.5, c = 0.8;
if(a < b < c)
  puts( "a < b < c" );</pre>
else
  puts( "(a < b ) > c)" );
return 0;
} /* main */
```

## **END OF PRESENTATION**