

3. What output is produced by the following calls to `printf`? Write only one character per square. Be sure to pay attention to the vertical bars. There are no spaces in the format string.

a) `printf("|%6d,%4d|", 86, 1040);`

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b) `printf("|%.4f|", 83.162);`

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4. Write the format specifier for `printf` that displays a floating point variable `x` in the following formats.

- Fixed decimal notation; left-justified in a field size of 8; three digits after the decimal place.
- Fixed decimal notation; right-justified in a field of size 6; no digits after the decimal place

5. Suppose that we call `scanf` as follows:

```
scanf("%d%f%d", &i, &x, &j);
```

If the user enters:

10.3 5 6

and then presses the enter key, what will the values of `i`, `x`, and `j` be after the call? (Assume that `i` and `j` are `int` variables and that `x` is a `float` variable. If any value is undefined, write Undefined.)

6. There are several problems with the simple program below. Some lines may have no problems, some may have one or more. Briefly describe the problems below. Please be specific. (The line numbers are not part of the program.)

```

1. include <stdio> /* printf */
2. /* This program prints the user's age
3. int Main(void)
   {
4.   int age

5.   printf("Enter your age: ");
6.   scanf("%d", age);
7.   printf("Your age is %f\n", age);

8.   return;
   }
```