CSC 209 Review 4 Solution

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1. The answer is a) *p and g) *&i.

Notes

- Address and Indirection Pointers
 - If x is a variable, &x points to its memory address
 - − * in *p is called Indirection operator
 - * Allows variable to gain access to the object pointed by p

• Aliases

- Is the situation where the value in same memory location can be accessed using different variable names.

Example 1:

```
int i, p*;
p = & i;
printf("%d\n", *p); /* *p is an alias of i */
Example 2:
```

```
int i, p*;
p = *\&i /* *p is an alias of i */
```

2. Notes

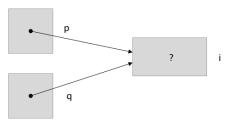
- Pointer Assignment
 - The following is an example of correct pointer assignment

```
int i, j, *p. *q;
p = \&i;
```

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- * Means the memory address of p is pointing to memory address of i
- The following is another valid example of pointer assignment

* Means memory address of q is the memory address of p (which is the memory address of $\mathtt{i})$



*p = 1;

