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Fall 2012 (121)  
King Fahd University of Petroleum and Minerals  
Information and Computer Science Department

ICS 410-01: Quiz #1 Key Solution

Monday, September 24th, 2012

Student ID: \_\_\_\_\_ Name: \_\_\_\_\_

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1. (a) What construct of a programming language provides process abstraction?

**functions (or subprograms, methods, procedures)**

- (b) What is the name of the category of programming languages whose structure is based on the von Neumann computer architecture?

**Imperative Programming Languages**

2. Write the output of the following C code snippet:

```
int i = 7, j = 2, k;  
int *p, *q;  
  
k = i * j;  
p = &k;  
*p = *p - 5;  
q = p;  
*q = 3;  
q = &j;  
*p *= 2;  
i = *(&j);  
  
printf("i = %d\n", i);  
printf("j = %d\n", j);  
printf("k = %d\n", k);
```

Output

```
i = 2  
j = 2  
k = 6
```