
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: _____

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
```