

## Functions (Assignment Solutions)

### Question 1 :

```
int reverse(int n) {  
    int res = 0;  
    while(n > 0) {  
        int lastDig = n % 10;  
        res = res*10 + lastDig;  
        n = n/10;  
    }  
    return res;  
}  
  
bool isPalindrome(int num) {  
    int revNum = reverse(num);  
    return num == revNum;  
}
```

### Question 2 :

```
int digSum(int n) {  
    int res = 0;  
  
    while(n > 0) {  
        res += n % 10;  
        n = n/10;  
    }  
    return res;  
}
```

### Question 3 :

```
int abSquare(int a, int b) {  
    return a*a + b*b + 2*a*b;  
}
```

COLLEGE

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**Question 4 :**

```
int largest(int a, int b, int c) {  
    if(a >= b && a >= c) {  
        return a;  
    } else if(b >= c) {  
        return b;  
    } else {  
        return c;  
    }  
}
```

**Question 5 :**

```
char getNextChar(char ch) {  
    if(ch == 'z') {  
        return 'a';  
    } else {  
        return ch + 1;  
    }  
}
```