

## Quiz 2

COMP9021 Principles of Programming

2014 session 1

### Sample outputs

```
$ a.out
Enter a nonnegative number at most equal to 1023: 0
Enter an integer: 0
Shifting through {}
        yields {}.

$ a.out
Enter a nonnegative number at most equal to 1023: 0
Enter an integer: 2
Shifting through {}
        yields {}.

$ a.out
Enter a nonnegative number at most equal to 1023: 1
Enter an integer: 0
Shifting through {0}
        yields {0}.

$ a.out
Enter a nonnegative number at most equal to 1023: 1
Enter an integer: 2
Shifting through {0}
        yields {2}.

$ a.out
Enter a nonnegative number at most equal to 1023: 1
Enter an integer: -2
Shifting through {0}
        yields {8}.

$ a.out
Enter a nonnegative number at most equal to 1023: 5
Enter an integer: 3
Shifting through {0, 2}
        yields {3, 5}.
```

```

$ a.out
Enter a nonnegative number at most equal to 1023: 5
Enter an integer: -3
Shifting through {0, 2}
        yields {7, 9}.

$ a.out
Enter a nonnegative number at most equal to 1023: 235
Enter an integer: 4
Shifting through {0, 1, 3, 5, 6, 7}
        yields {0, 1, 4, 5, 7, 9}.

$ a.out
Enter a nonnegative number at most equal to 1023: 235
Enter an integer: -4
Shifting through {0, 1, 3, 5, 6, 7}
        yields {1, 2, 3, 6, 7, 9}.

$ a.out
Enter a nonnegative number at most equal to 1023: 1000
Enter an integer: 1
Shifting through {3, 5, 6, 7, 8, 9}
        yields {0, 4, 6, 7, 8, 9}.

$ a.out
Enter a nonnegative number at most equal to 1023: 1000
Enter an integer: -1
Shifting through {3, 5, 6, 7, 8, 9}
        yields {2, 4, 5, 6, 7, 8}.

$ a.out
Enter a nonnegative number at most equal to 1023: 1000
Enter an integer: 15
Shifting through {3, 5, 6, 7, 8, 9}
        yields {0, 1, 2, 3, 4, 8}.

$ a.out
Enter a nonnegative number at most equal to 1023: 1000
Enter an integer: -15
Shifting through {3, 5, 6, 7, 8, 9}
        yields {0, 1, 2, 3, 4, 8}.

$ a.out
Enter a nonnegative number at most equal to 1023: 456
Enter an integer: 23
Shifting through {3, 6, 7, 8}
        yields {0, 1, 6, 9}.

```

```

$ a.out
Enter a nonnegative number at most equal to 1023: 456
Enter an integer: -23
Shifting through {3, 6, 7, 8}
        yields {0, 3, 4, 5}.

$ a.out
Enter a nonnegative number at most equal to 1023: 907
Enter an integer: 1234567
Shifting through {0, 1, 3, 7, 8, 9}
        yields {0, 4, 5, 6, 7, 8}.

$ a.out
Enter a nonnegative number at most equal to 1023: 907
Enter an integer: -1234567
Shifting through {0, 1, 3, 7, 8, 9}
        yields {0, 1, 2, 3, 4, 6}.

$ a.out
Enter a nonnegative number at most equal to 1023: 1023
Enter an integer: 2314
Shifting through {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}
        yields {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}.

$ a.out
Enter a nonnegative number at most equal to 1023: 1023
Enter an integer: -2314
Shifting through {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}
        yields {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}.

```