

Spring 2000 CSE 142 Midterm 2 Version A

Answer Key

1. C
2. D
3. B
4. E
5. C
6. D
7. D
8. C
9. D
10. C
11. D
- 12a) num1 = 24, num2 = 48
- 12b) see class slides
13. See the following program:

```
#include <stdio.h>
#include <stdlib.h>
#include <assert.h>
#include <time.h>

int main(void)
{
    int n, rnum, scanfResult;
    srand( (unsigned)time( NULL ) );
    scanfResult = scanf("%d", &n);
    assert(scanfResult == 1);
    while (n != -1) {
        if (n > 0) {
            rnum = rand() % n + 1;
            printf("Next random number 1..%d is : %d\n", n, rnum);
        }
        scanfResult = scanf("%d", &n);
        assert(scanfResult == 1);
    }
    return (0);
}
```