Roll #

Name ____

```
Output/Error:
void evenFibonacciSum(int num) {
  int a = 0, b = 1, sum = 0;
                                                                            Current totalSum: 1
  while (b \le num) {
                                                                            Sum of even Fibonacci numbers up
    if (b \% 2 == 0) {
                                                                            to 2: 2
       sum += b;
                                                                            Current totalSum: 3
    int next = a + b;
                                                                            Sum of even Fibonacci numbers up
    a = b;
                                                                            to 4: 2
                                                                            Current totalSum: 6
    b = next;
                                                                            Sum of even Fibonacci numbers up
  cout << "Sum of even Fibonacci numbers up to " << num << ": " <<
                                                                            to 6: 2
sum << endl;}
                                                                            Current totalSum: 10
int main() {
                                                                            Sum of even Fibonacci numbers up
  int totalSum = 0;
                                                                            to 8: 10
  for (int i = 1; i \le 5; ++i) {
                                                                            Current totalSum: 15
                                                                            Sum of even Fibonacci numbers up
    totalSum += i;
                                                                            to 10: 10
    cout << "Current totalSum: " << totalSum << endl;</pre>
    for (int j = 1; j \le 3; ++j) {
       if (i == 2) {
         evenFibonacciSum(i * j);}}}
  return 0;}
                                                                            Output/Error:
int main() {
  for (char i = 'A'; i \le 'A'; i++) {
                                                                            AAAAA
    for (char j = 'A'; j \le 'A'; j++) {
                                                                            AAAABA
       for (char k = 'A'; k \le 'A'; k++) {
                                                                            AAABAA
          for (char l = 'A'; l \le 'B'; l++) {
                                                                            AAABBA
            for (char m = 'A'; m \le 'B'; m++) {
               for (char n = 'A'; n \le 'A'; n++) {
                 cout << i << j << k << 1 << m << n << endl;
}}}}}
  return 0;}
```

```
void generateCombinations(string current, int depth, char start, char end) {
                                                                            Output/Error:
  if (depth == 3) {
    if(current[0] == current[1] && current[1] == current[2]) 
                                                                             AAA#
       cout << current << "#" << endl:
                                                                            AAB*
                                                                            ABA*
     } else {
       cout << current << "*" << endl;}
                                                                            ABB*
    return;}
                                                                            BAA*
  for (char c = start; c \le end; c++) {
                                                                            BAB*
     generateCombinations(current + c, depth + 1, start, end); \}
                                                                            BBA*
void printCombinations() {
                                                                            BBB#
  generateCombinations("", 0, 'A', 'B');}
int main() {
  printCombinations();
  return 0;}
int main() {
                                                                            Output/Error:
  int n = 5;
  for (int i = 1; i \le n; i++) {
                                                                            #####
    for (int j = 1; j \le n; j++) {
                                                                            # * - * #
       if (i == 1 || i == n || j == 1 || j == n) {
                                                                            # - (a) - #
         cout << "# ";
                                                                            # * - * #
       else if ((i + j) \% 2 == 0) {
                                                                            #####
         if (i \% 2 == 0) {
                                                                            PF PF PF PF PF
            cout << "* ":
          } else {
            cout << "@ ";}
       } else {
         cout << "- ";}}
    cout << endl;}
  for (int k = 0; k < 5; k++) {
    cout << "PF ":}
  cout << endl;
  return 0;}
```

```
int main() {
  int n = 5;
  for (int i = 1; i \le n; i++) {
     for (int j = n; j > i; j---)
        cout << " ";
     for (int j = 1; j \le (2 * i - 1); j++) {
        if (j == 1 || j == (2 * i - 1)) {
           int sum = i + j;
           if (sum \% 3 == 0)
              cout << '*';
           else if (sum \% 3 == 1)
              cout << '#';
           else
              cout << '@';
        } else {
           cout << ' ';}}
     cout << endl;}</pre>
  for (int i = n - 1; i >= 1; i --) {
     for (int j = n; j > i; j---)
        cout << " ";
     for (int j = 1; j \le (2 * i - 1); j++) {
        if (j == 1 || j == (2 * i - 1)) {
           int sum = i + j;
           if (sum \% 3 == 0)
```

Output/Error:



```
cout << '*';
          else if (sum \% 3 == 1)
             cout << '#';
          else
             cout << '@';
        } else {
          cout << ' ';}}
     cout << endl;}</pre>
  return 0;}
                                                                                  Output/Error
int main() {
                                                                                   1 5 10 10 5 1
  int n = 5;
                                                                                    14641
                                                                                     1331
  for (int i = n; i \ge 0; i--) {
                                                                                      121
                                                                                       1 1
     for (int j = n; j > i; j--)
                                                                                        1
        cout << " ";
     int C = 1;
     for (int j = 0; j \le i; j++) {
        cout << C << " ";
        C = C * (i - j) / (j + 1);
     cout << endl;}</pre>
  return 0;}
```