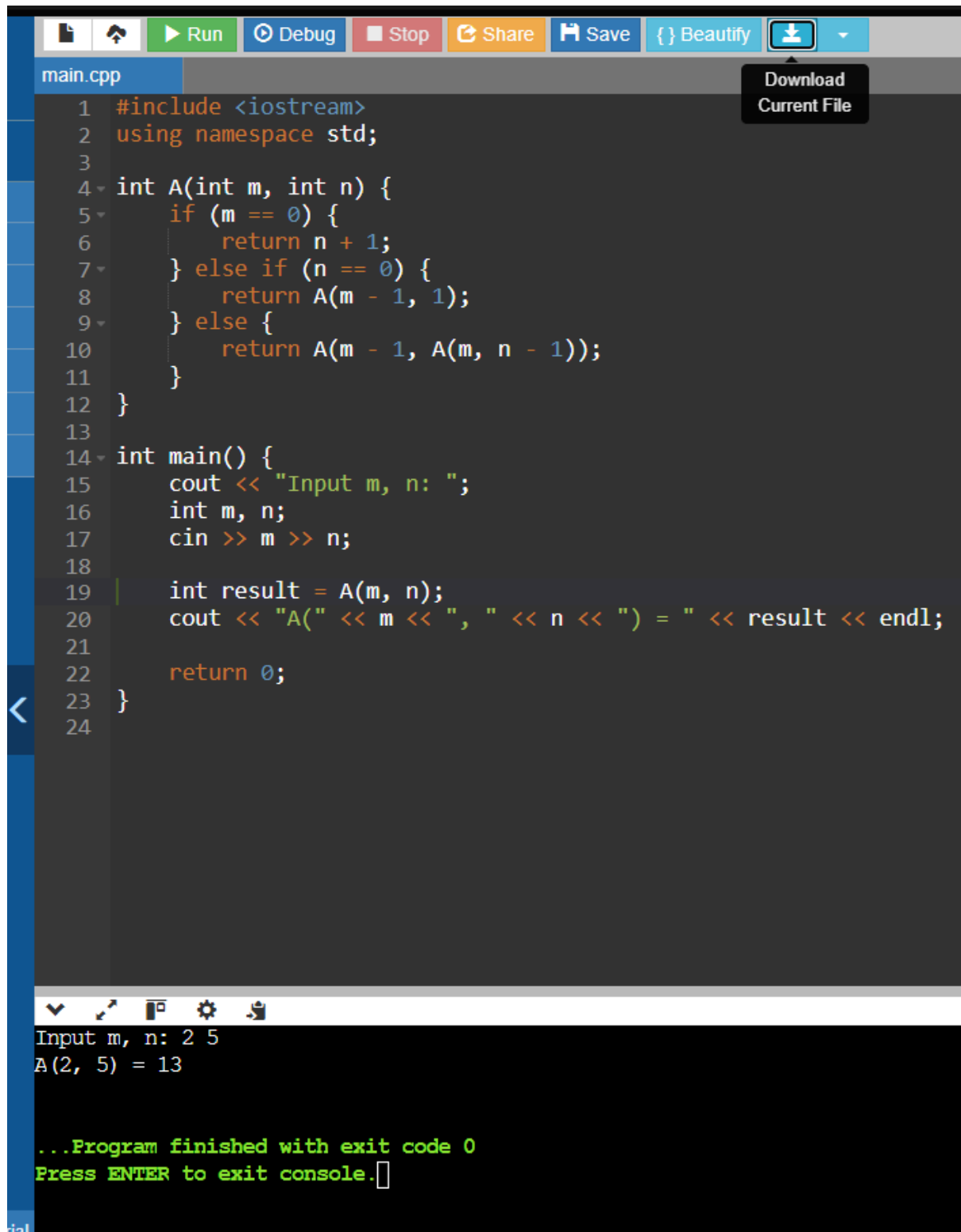


1. 解題說明:基本上就是照題目打
2. 效能分析:時間複雜度 $2^n$ 。空間複雜度 $2^n$ 記憶體容量
3. 測試與驗證
4. 申論及心得:題目相對簡單



The image shows a C++ IDE with a dark theme. The top toolbar includes buttons for Run, Debug, Stop, Share, Save, Beautify, and a Download Current File button. The code editor displays a file named main.cpp with the following C++ code:

```
1 #include <iostream>
2 using namespace std;
3
4 int A(int m, int n) {
5     if (m == 0) {
6         return n + 1;
7     } else if (n == 0) {
8         return A(m - 1, 1);
9     } else {
10        return A(m - 1, A(m, n - 1));
11    }
12 }
13
14 int main() {
15     cout << "Input m, n: ";
16     int m, n;
17     cin >> m >> n;
18
19     int result = A(m, n);
20     cout << "A(" << m << ", " << n << ") = " << result << endl;
21
22     return 0;
23 }
24
```

The output window at the bottom shows the program's execution:

```
Input m, n: 2 5
A(2, 5) = 13

...Program finished with exit code 0
Press ENTER to exit console.
```

```
main.cpp Download Current File
8      cout << subset[i] << " ";
9  }
10     cout << "} ";
11 }
12
13 void generatePowerset(char set[], char subset[], int n, int index, int subsetSize) {
14
15     if (index == n) {
16         printSubset(subset, subsetSize);
17         return;
18     }
19
20     generatePowerset(set, subset, n, index + 1, subsetSize);
21
22     subset[subsetSize] = set[index];
23     generatePowerset(set, subset, n, index + 1, subsetSize + 1);
24 }
25
26 void powerset(char set[], int n) {
27     char subset[n];
28     generatePowerset(set, subset, n, 0, 0);
29 }
30
31 int main() {
32     char S[] = {'a', 'b', 'c'};
33     int n = sizeof(S) / sizeof(S[0]);
34
35     cout << "Powerset of S: ";
36     powerset(S, n);
37
38     return 0;
39 }
40
```

▼ 🔍 ⚙️ 📁

Powerset of S: { } { c } { b } { b c } { a } { a c } { a b } { a b c }

...Program finished with exit code 0  
Press ENTER to exit console.