Extra Walkthrough Practice

Test Content

Question 1   1 Point

```cpp
#include <iostream>
using namespace std;

#define SQR(VAL) VAL * VAL
#define CUB(VAL) VAL * VAL * VAL
#define ADD(VAL1, VAL2) VAL1 + VAL2

int main(){
  cout << SQR(2) + ADD(3, 4) << endl;
  cout << CUB(5) * ADD(7, 8) << endl;
  cout << CUB(3) - SQR(2) << endl;
}
```

What is the output of the above program?

Use the editor to format your answer

```cpp
#include <iostream>
using namespace std;

int main(){

  const int row = 2, col = 2;
  int arr[row][col]{};

  auto lam = [&arr](int num){
    for (auto i = 0; i < row; ++i)
      for (auto j = 0; j < col; ++j)
        arr[i][j] = num * i + j;
  };

  auto disp = [&arr](int r, int c){
    cout << arr[r][c] << endl;
  };

  lam(4);
  disp(0,1);
  disp(1,0);
  disp(0,0);
  disp(1,1);
  lam(2);
  disp(1,0);
  disp(1,1);
  disp(0,1);
  disp(0,0);
}
```

What is the output of the above program?

Use the editor to format your answer

```cpp
#include <iostream>
#include <functional>
using namespace std;

int main(){

  int val = 5;

  function<int(int, int)> fs[3]{
    [val](int i, int j) mutable -> double { val = i * j; return val; },
    [=](int i, int j){ return i - val - j; },
    [&val](int i, int j){ val = i + j + val; return val; }
  };

  for (auto& x : fs){
    cout << x(1, 2) << endl;
    cout << val << endl;
  }
}
```

What is the output of the above program?

Use the editor to format your answer

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