```
1
    from program2_2 import Dmatrix
    L = 3
4
    M = 2
    N = 3
7
    def main():
        global L, M, N
        a = Dmatrix(1, L, 1, M) # 行列 a[1...L][1...M]
11
        b = Dmatrix(1, M, 1, N) # 行列 b[1...M][1...N]
        # 行列 A の定義
13
        for i in range(1, L+1):
15
           for j in range(1, M+1):
               a[i][j] = 2.0 * (i + j)
17
        # 行列 B の定義
19
        for i in range(1, M+1):
            for j in range(1, N+1):
                b[i][j] = 2.0 * (i + j)
       # 行列の積の計算
        c = matrix_product(a, b)
        # 結果の表示
        print("A x B の結果は次の通りです")
        for i in range(1, L+1):
27
            for j in range(1, N+1):
                print(c[i][j], end=" ")
            print()
    def matrix_product(a: Dmatrix, b: Dmatrix) -> Dmatrix:
        11, 12 = a.row_head_idx, a.row_last_idx
        m1, m2 = a.col_head_idx, a.col_last_idx
        n1, n2 = b.col_head_idx, b.col_last_idx
        c = Dmatrix(11,12,n1,n2)
        for i in range(11, 12+1):
                                         # 行の添字
            for j in range(n1, n2+1):
40
                c[i][j] = 0.0
                                         # 変数の初期化
41
42
                for k in range(m1, m2+1): # 列の添字
43
                    c[i][j] += a[i][k] * b[k][j]
```