

**Algorithm STRASSEN (n, A, B, C)**  
**//n-> matrix size, A and B are input matrices**  
**//C-> Resultant matrix**

```
begin
    if n = 2 then
        MATRIX-MULTIPLY (A, B, C)
    else
        begin
            STRASSEN (n / 2, A11, B12-B22, M1);
            STRASSEN (n / 2, A11 + A12, B22, M2);
            STRASSEN (n / 2, A21 + A22, B11, M3);
            STRASSEN (n / 2, A22, B21-B11, M4);
            STRASSEN (n / 2, A11 + A22, B11 + B22, M5);
            STRASSEN (n / 2, A12-A22, B21 + B22, M6);
            STRASSEN (n / 2, A11-A21, B11 + B12, M7);

        end;
    end;
```