```
int main() {
    int A[2][2][2] = {
        \{\{1, 2\}, \{3, 4\}\},\
        {{5, 6}, {7, 8}}
    };
    int T[2][2][2];
    for (int layer = 0; layer < 2; layer++) {</pre>
        for (int i = 0; i < 2; i++) {
            for (int j = 0; j < 2; j++) {
                 T[layer][j][i] = A[layer][i][j];
    }
    for (int layer = 0; layer < 2; layer++) {</pre>
        printf("Original Layer %d:\n", layer + 1);
        for (int i = 0; i < 2; i++) {
            for (int j = 0; j < 2; j++)
                 printf("%d\t", A[layer][i][j]);
            printf("\n");
```

```
27
            }
28
            printf("Transposed Layer %d:\n", layer + 1);
29
            for (int i = 0; i < 2; i++) {
30
                for (int j = 0; j < 2; j++)
31
                    printf("%d\t", T[layer][i][j]);
32
                printf("\n");
33
34
35
            printf("\n");
36
        }
37
38
        return 0;
39
40
```

```
Original Layer 1:
1
   2
3
  4
Transposed Layer 1:
1
    3
2 4
Original Layer 2:
5
    6
7
    8
Transposed Layer 2:
5
6
  8
```