1 D4 - TEKKOM B

TUGAS

STRUKTUR DATA

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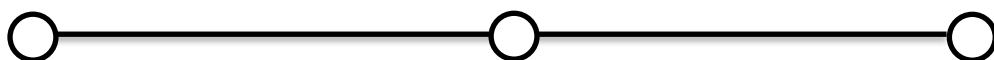
Source Code

```c
#include <stdio.h>
#define size 2

struct myArray{
    int a[size][size];
    int b[size][size];
    int c[size][size];

};

int main(){
    system("cls");
    int jumlah;
    struct myArray array;
    for(int i=0;i<size;i++){
        for(int j=0;j<size;j++){
            printf("Nilai a[%d][%d]: ",i,j);
            scanf("%d",&array.a[i][j]);
        }
    }
    puts("");
    for(int i=0;i<size;i++){
        for(int j=0;j<size;j++){
            printf("Nilai b[%d][%d]: ",i,j);
            scanf("%d",&array.b[i][j]);
        }
    }
    puts("");
    for(int i = 0; i < size; i++){
      for(int j = 0; j < size; j++){
        for(int k = 0; k < size; k++){
          jumlah = jumlah + array.a[i][k] * array.b[k][j];
        }
        array.c[i][j] = jumlah;
        jumlah = 0;
      }
    }

    printf("Hasil perkalian matriks: \n");
    for(int i = 0; i < size; i++){
      for(int j = 0; j < size; j++){
        printf("%d ", array.c[i][j]);
      }
      printf("\n");
    }
}
```

Output

```
PROBLEMS    OUTPUT    TERMINAL    ...

Nilai a[0][0]: 1
Nilai a[0][1]: 2
Nilai a[1][0]: 3
Nilai a[1][1]: 4

Nilai b[0][0]: 4
Nilai b[0][1]: 3
Nilai b[1][0]: 2
Nilai b[1][1]: 1

Hasil perkalian matriks:
8 5
20 13
PS D:\SMT 2\PD 2\Prak3> []
```