declare -A matrix1

declare -A matrix2

declare -A result\_matrix

echo "Enter values for the first 3x3 matrix:"

for ((i=0; i<3; i++)); do

for ((j=0; j<3; j++)); do

read -p "Enter value for element ($i, $j): " value

matrix1[$i,$j]=$value

done

done

echo "Enter values for the second 3x3 matrix:"

for ((i=0; i<3; i++)); do

for ((j=0; j<3; j++)); do

read -p "Enter value for element ($i, $j): " value

matrix2[$i,$j]=$value

done

done

for ((i=0; i<3; i++)); do

for ((j=0; j<3; j++)); do

result\_matrix[$i,$j]=0

for ((k=0; k<3; k++)); do

result\_matrix[$i,$j]=$(( ${result\_matrix[$i,$j]} + ${matrix1[$i,$k]} \* ${matrix2[$k,$j]} ))

done

done

done

echo "Result of matrix multiplication:"

for ((i=0; i<3; i++)); do

for ((j=0; j<3; j++)); do

echo -n "${result\_matrix[$i,$j]} "

done

echo ""

done