Matrix Chain Order

#include<stdio.h>

int MatrixChainOrder(int p[], int i, int j)

{

if(i==j)

return 0;

int k, matrixCost;

int min=9999;

for(k=i;k<j;k++)

{

matrixCost = MatrixChainOrder(p,i,k)+MatrixChainOrder(p,k+1,j)+

p[i-1]\*p[k]\*p[j];

if(matrixCost<min)

min=matrixCost;

}

return min;

}

int main()

{

int arr[]={10, 100, 5, 50};

int n=sizeof(arr)/sizeof(arr[0]);

printf("Minimum no of Scaler Multiplication is %d",

MatrixChainOrder(arr, 1, n-1));

getchar();

return 0;

}