Write a program in Java to find the sum of n number of elements in the range of L and R where 0 <= L <= R <= n-1

package practice3;

public class Range\_queries {

static int *k* = 16;

static int *N* = 100000;

static long *table*[][] = new long[*N*][*k* + 1];

static void buildSparseTable(int arr[], int n)

{

for (int i = 0; i < n; i++)

*table*[i][0] = arr[i];

for (int j = 1; j <= *k*; j++)

for (int i = 0; i <= n - (1 << j); i++)

*table*[i][j] = *table*[i][j - 1] + *table*[i + (1 << (j - 1))][j - 1];

}

static long query(int L, int R)

{

long answer = 0;

for (int j = *k*; j >= 0; j--)

{

if (L + (1 << j) - 1 <= R)

{

answer = answer + *table*[L][j];

L += 1 << j;

}

}

return answer;

}

public static void main(String args[])

{

int arr[] = { 3, 7, 2, 5, 8, 9 };

int n = arr.length;

*buildSparseTable*(arr, n);

System.***out***.println(*query*(0, 5));

System.***out***.println(*query*(3, 5));

System.***out***.println(*query*(2, 4));

}

}