1. Write two functions to compute and return the following summation $\sum_{a}^{b} i$. First function computes the summations and inserts it into an array and second function returns the values using the array. Prototype of the first function is given below.

```c
void precomputesummation(int data[], int n)
```

data is an array that will store computed values and \( n \) is the size of the array. Data\[k\] will have the following value stored in it $\sum_{i=1}^{k} i$. Compute all the values of data\[k\] inside this function. Note that you can compute all the values of the array using a single loop.

Prototype of the second function is given below. data is an integer array of precomputed values, \( n \) is the size of the array, \( a \) and \( b \) are the starting and ending indexes for the summation.

```c
void findssummation(int data[], int n, int a, int b)
```

data is an integer array of precomputed values, \( n \) is the size of the array, \( a \) and \( b \) are the starting and ending indexes for the summation. This function can be implemented without using a loop using values of the data array. Consider the following equation as a hint.

$$\sum_{i=1}^{b} i = \sum_{i=1}^{a-1} i + \sum_{i=a}^{b} i$$