

Write a C program that creates three threads. Each thread will print the sum of the numbers in only one of the input files, named input1.txt, input2.txt, and input3.txt, respectively. In other words, the first thread will read the numbers in the input1.txt file, the second thread will read the numbers in the input2.txt file, and the third thread will read the numbers in the input3.txt file one by one and print their total to the screen. The mentioned input files are shared in attachment. Thread reading order may be different. Sums will be important to us. The sample program can be run with the terminal commands seen in the image below

```
(base) zeynep@mint:~/Desktop/ödev$ gcc lab.c -lpthread
(base) zeynep@mint:~/Desktop/ödev$ ./a.out
Thread1 reads 1. The value is 1.230000. The sum is : 1.230000
Thread3 reads 1. The value is 5.230000. The sum is : 5.230000
Thread2 reads 1. The value is 5.230000. The sum is : 5.230000
Thread3 reads 2. The value is 5.660000. The sum is : 10.890000
Thread2 reads 2. The value is 5.660000. The sum is : 10.890000
Thread3 reads 3. The value is 8.890000. The sum is : 19.780000
Thread2 reads 3. The value is 6.890000. The sum is : 17.780000
Thread3 reads 4. The value is 9.740000. The sum is : 29.520000
Thread2 reads 4. The value is 6.740000. The sum is : 24.520000
Thread1 reads 2. The value is 2.660000. The sum is : 3.890000
Thread3 reads 5. The value is 7.960000. The sum is : 37.480000
Thread3 Sum is : 37.480000
Thread2 reads 5. The value is 8.960000. The sum is : 33.480000
Thread2 Sum is : 33.480000
Thread1 reads 3. The value is 3.780000. The sum is : 7.670000
Thread1 reads 4. The value is 8.560000. The sum is : 16.230000
Thread1 reads 5. The value is 9.820000. The sum is : 26.050000
Thread1 Sum is : 26.050000
```

Reading order of the threads changes, so the program outputs may also be different. Below are different examples.

```
(base) zeynep@mint:~/Desktop/ödev$ ./a.out
Thread1 reads 1. The value is 1.230000. The sum is : 1.230000
Thread1 reads 2. The value is 2.660000. The sum is : 3.890000
Thread1 reads 3. The value is 3.780000. The sum is : 7.670000
Thread3 reads 1. The value is 5.230000. The sum is : 5.230000
Thread2 reads 1. The value is 5.230000. The sum is : 5.230000
Thread3 reads 2. The value is 5.660000. The sum is : 10.890000
Thread1 reads 4. The value is 8.560000. The sum is : 16.230000
Thread3 reads 3. The value is 8.890000. The sum is : 19.780000
Thread2 reads 2. The value is 5.660000. The sum is : 10.890000
Thread3 reads 4. The value is 9.740000. The sum is : 29.520000
Thread1 reads 5. The value is 9.820000. The sum is : 26.050000
Thread3 reads 5. The value is 7.960000. The sum is : 37.480000
Thread3 Sum is : 37.480000
Thread2 reads 3. The value is 6.890000. The sum is : 17.780000
Thread1 Sum is : 26.050000
Thread2 reads 4. The value is 6.740000. The sum is : 24.520000
Thread2 reads 5. The value is 8.960000. The sum is : 33.480000
Thread2 Sum is : 33.480000
(base) zeynep@mint:~/Desktop/ödev$
```