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Operating Systems

Fall 2022

Project 2 Documentation

This program, banker.cpp, is a program that has an implementation of the Banker's Algorithm given the sequence provided below at time t0.

Process	Allocation	Max	Available
	A B C	A B C	A B C
P_0	0 1 0	7 5 3	3 3 2
P_1	2 0 0	3 2 2	
P_2	3 0 2	9 0 2	
P_3	2 1 1	2 2 2	
P_4	0 0 2	4 3 3	

It obtains this information from a file called bankTable.txt. It allocates 3 separate arrays before running checks to see if the sequence is safe. If the sequence is safe, it will then print out exactly what the safe sequence is.

In order to compile this program, I used clang++ -std=c++11 banker.cpp first and then a ./a.out to compile. Below is an example of this program running.

```
[jkilmer3@wasp cs33211]$ clang++ -std=c++11 banker.cpp
[jkilmer3@wasp cs33211]$ ./a.out
The sequence is safe.
The sequence is safe.
The sequence is safe.
The sequence is safe.
The sequence is safe.
The safe sequence is:
 P1 -> P3 -> P4 -> P0 -> P2
```