Program for Best Fit algorithm in Memory Management

操作系统中内存管理算法之一: 首次适应算法

```
#include <bits/stdc++.h>
using namespace std;
void bestFit(vector<int> &blockSize, vector<int> &processSize) {
   vector<int> allocation(processSize.size(), -1);
    for (int i = 0; i < processSize.size(); ++i) {</pre>
       int bestBlockNo = -1;
        for (int j = 0; j < blockSize.size(); ++j) {
            if (blockSize[j] >= processSize[i]) {
               if (bestBlockNo == -1) bestBlockNo = j;
               else if (blockSize[j] <= blockSize[bestBlockNo]) bestBlockNo = j;</pre>
        }
        allocation[i] = bestBlockNo;
       blockSize[bestBlockNo] -= processSize[i];
    for (int i = 0; i < allocation.size(); ++i) {</pre>
        allocation[i] != -1 ?
        printf("processId: %d, processSize: %d, blockNo: %d\n", i + 1, processSize[i], allocation[i] + 1) :
       printf("processId: %d, processSize: %d, blockNo: not found\n", i + 1, processSize[i]);
int main() {
   vector<int> blockSize = {100, 500, 200, 300, 600};
    vector<int> processSize = {212, 417, 112, 426};
   bestFit(blockSize, processSize);
   return 0;
}
```