1. We should review all common hypothesis test in finance!!!
2. What is F test good for?
3. Problem 3 could be solved in terms of Brownian bridge.
4. Here is another similar question related to Problem 7 in quiz2.   
   Consider the regression relation Y = aX and X = bY, which of the following is true?

ab>1, ab <1, ab = 1, ab>=1, ab <=1

1. How each of the statistical distributions is derived? What will happen if extra constraints are added? e.g., random walk with boundaries on both sides: -100 and 100?
2. Implementation of min\_heap using priority\_queue (default; max\_heap) and functor in C++:

class compClass {

public:

bool operator() (long left, long right) {

return left < right; // default: “<”

}

};

priority\_queue<long> pq;

priority\_queue<long, vector<long>, compClass> mypq;

int a[] = {4,3,7,2,9,0,6,8,1,5};

for (int i = 0; i < sizeof(a) / sizeof(int); ++i) {

mypq.push(a[i]);

}

while (!mypq.empty()) {

cout << mypq.top() << " ";

mypq.pop();

}