```cpp
/**
*  Class AirportRunways provides definitions of constants and helper methods for the Airport simulation.
*/

#ifndef AIRPORT_RUNWAYS_H
#define AIRPORT_RUNWAYS_H

#include <iostream>
#include <string>
#include <mutex>

using namespace std;


class AirportRunways
{
public:

        static const int NUM_RUNWAYS = 6;     // Number of runways in this simulation
        static const int NUM_AIRPLANES = 7;   // Number of airplanes in this simulation
        static const int MAX_LANDING_REQUESTS = 6; // Maximum number of simultaneous landing requests that Air Traffic Control can handle

        enum RunwayNumber { RUNWAY_4L, RUNWAY_4R, RUNWAY_9, RUNWAY_14, RUNWAY_15L, RUNWAY_15R };

        static mutex checkMutex; // enforce mutual exclusion on checkAirportStatus

        static string runwayName(RunwayNumber rn);

        /**
        *  Check the status of the aiport with respect to any violation of the rules.
        */
        static void checkAirportStatus(RunwayNumber requestedRunway);

        /**
        *  requestRunway() and finishedWithRunway() are helper methods for keeping track of the airport status
        */

        static void requestRunway(RunwayNumber rn)
        {
                runwayInUse[rn]++;

        } // end useRunway()


        static void finishedWithRunway(RunwayNumber rn)
        {
                runwayInUse[rn]--;

        } // end finishedWithRunway()


        static int getNumLandingRequests()
        {
                return numLandingRequests;
        }


        static void incNumLandingRequests()
        {
                numLandingRequests++;
                if (numLandingRequests > maxNumLandingRequests)
                        maxNumLandingRequests = numLandingRequests;
        }


        static void decNumLandingRequests()
        {
                numLandingRequests--;
        }

        static int runwayInUse[NUM_RUNWAYS]; // Keeps track of how many airplanes are attempting to land on a given runway

        static int numLandingRequests; // Keeps track of the number of simultaneous landing requests

        static int maxNumLandingRequests; // Keeps track of the max number of simultaneous landing requests


private:

        /**
         *  The following variables and methods are used to detect violations of the rules of this simulation.
         */

}; // end class AirportRunways

#endif
```