#include <iostream>

using namespace std;

int main() {

int X, Y, Z;

cout << "Enter the number of colleges: ";

cin >> X;

cout << "Enter the number of students per college: ";

cin >> Y;

cout << "Enter the number of students who passed: ";

cin >> Z;

int totalStudents = X \* Y;

if (Z > totalStudents / 2) {

cout << "YES" << endl;

} else {

cout << "NO" << endl;

}

return 0;

}