Lale 3 1BM8CS077 Rapul Patil int Islands(vector > arr) { int count = 0; intm = arr.size(); intn = arr(0].size(); for (inti = 0; i < m; i+){ for Cint; = 0; j < n; j++){ if Carrlil[j]) count+; Union *uf = new Union (m * n); ug -> setCount(count); for (inti = 0; i < m; i+){ for (int j = 0; j < n; j+)? if Carrilly! if(i > 0 ex arrli - /][j]) uf -> connect(n * i + j, n * if (i < m - 1 a arrli + 1][j]) uf -> connect(n * i + js n*(i+1)+j); if (j > 0 ex arrlillj - 1]) uf -> connect(n * i + j, n * i

+j-1); iglý < n - / 24 arrli][j + 1]) ugl -> connect(n * i + j, n
* i + j + 1); if(i > 0 ex; > 0 ex arrli - 1][j - 1]) uf -> connect(n * i+j, n * (i-1)+j-1); igli < m - 1 44 j < n - 1 44 arrli + 1][j + 1])ugl -> connect(n * i + j, n * (i + 1) + j + 1); if(i=0 ex j connect(n * i + j, n * (i - 1) + j + 1); igli < m - 1 ee; > 0 ee arrli + 1][j-1]) ug -> connect(n * i + j, n * (i + 1) + j - 1); return uf -> count,