## Counting Islamos

Count Is lands (vcctor 2 vcctor 2 int 22a) int n = a. 8ize (); int - m = aco]. &ze(); Diegentsets #dw = new Diegont Woonsets (n4m) for ( int 3=0; jcn; 3++) 1 for (int K=0; KCm; K++) f it (aci][k] ==0) if ( 1/4 1 × n 2/9 a [ j+1][ k] ==1) dus > union (j+(m)+K), (j+1)\*(m)+K)j; if (j-1 >= 0 &4 a[j-1.](k]==1) dus -> woon (j+(m)+k, G-1)x (m) +K) if (k+1/2m & a Cj][K+1] ==1) dus > Union (j x (m) + k, (j) \* (m)

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+K+1);

if ( K-1 >=0 & { a [ j] [ k-1 ] ==1) dus > umon ( j+(m)+ K, (j)+m)+k-1); H(K-1 if (j+i2n & k+1> m & q a [j+1][k-1] == ) dus > union (+; \*(m)+k, (j+1).\*(m)+K+); if (j+1 < n 89 K-1 >= 0 88 a Cj+][K-]=) dw > umon (j xm+k, (3+1)\*(m)+K-1); if (j-1)=084 K+1 Cm 88 alj-1][K+1] dus -) union(j\*m+K, (j-1) \* m+K+); If ( j-1 >= 028 K-1 S=0 28 a[j-1][K-1] ==1)
3 dus -) union (j+m+k, (j-1)\*m+k-);