Time complexity: Date: / / int 0=0, b=0; fan (i=0: i<N: i++) { a= a+nand(); far (j=0; j<m;j++) { b = b + grand (); O(N+m) int a 20; fan (i = 0; i < N; i++) { for LizN; i>ii j--) { a= a+i+j; (11) int is, i, K=0; for (i=n/2; i<=h; i++) & fan (j=2; j<2n; j=j\*2) % 142 K+h /2; y

int a = 0, i = N; while (1>0) ? 1/=2; -> 0 (ugn) for (von i 20; i kn; i++) 1 = 15  $\rightarrow$   $O(\sqrt{N})$ olet fum(n): (g) if (nx5); Print ("Greeks for Greeks", end 2"") else: for ci un range (n): \* bent case 0(1) & alarest case O(N)

MATRIKAS

det frum (a,b): uhile (a! (=1b): if (a > b): a= a-b clise: b= b-a. Vaid frum (unt n) for (unt i =0; ixiXni i++) Taut << " Creeks for Corceks"; -> O (VA) void frem ( int n int x) for (int i=1: ikn: i=i\*x) // an far (int i=n; i>= 1; i=i/x) Cant << " Grooks for Greeks"; -> 0 (dagn

MATRIKAS

vaid frum (unt n) far (int i = 0; i < n/2; i++) for (int i = 1; j+n/2 <=n; v++) for ( unt 13=1; KK=n; 14=K\*2) caut & " Greeks far Greeks", -> 0 (n2 logn) Usid frum (int n) unt i = 1 ; while (ixn) & unt i = ni while (1 >0) & す= 1/2 ; -> 0 (log2n)