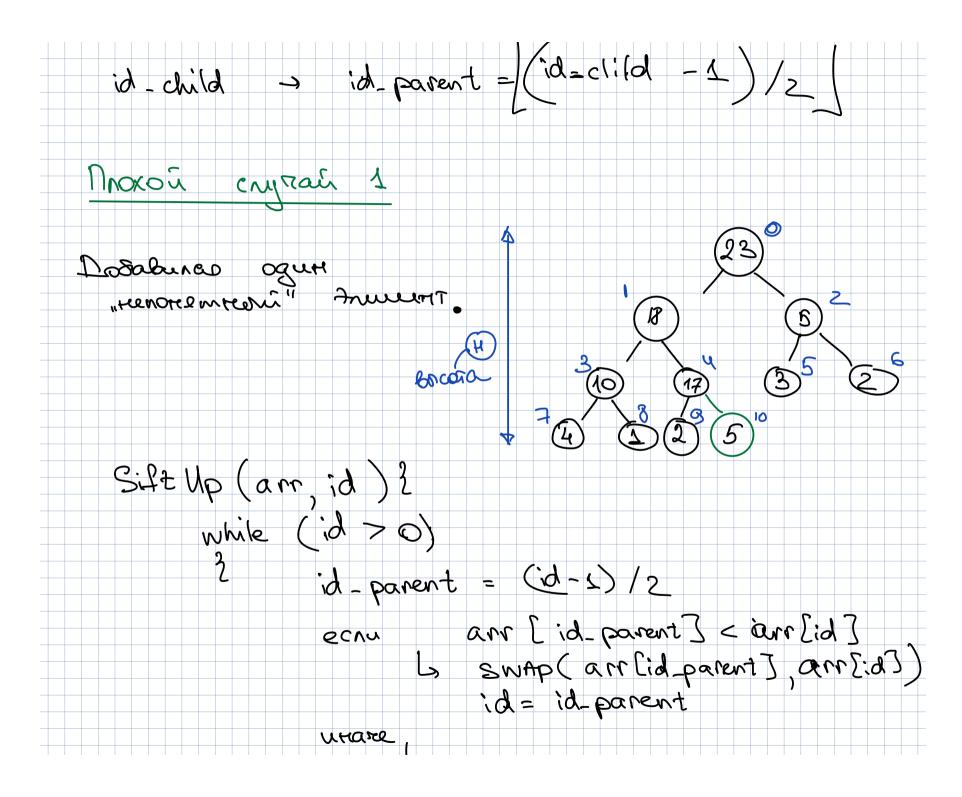
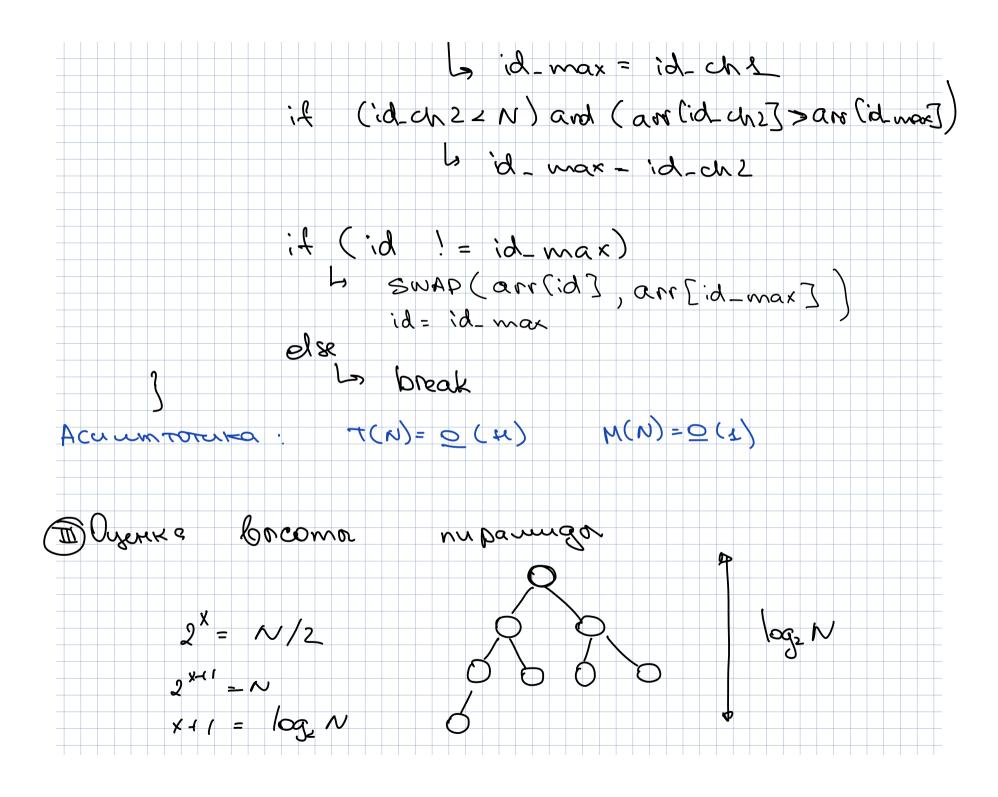
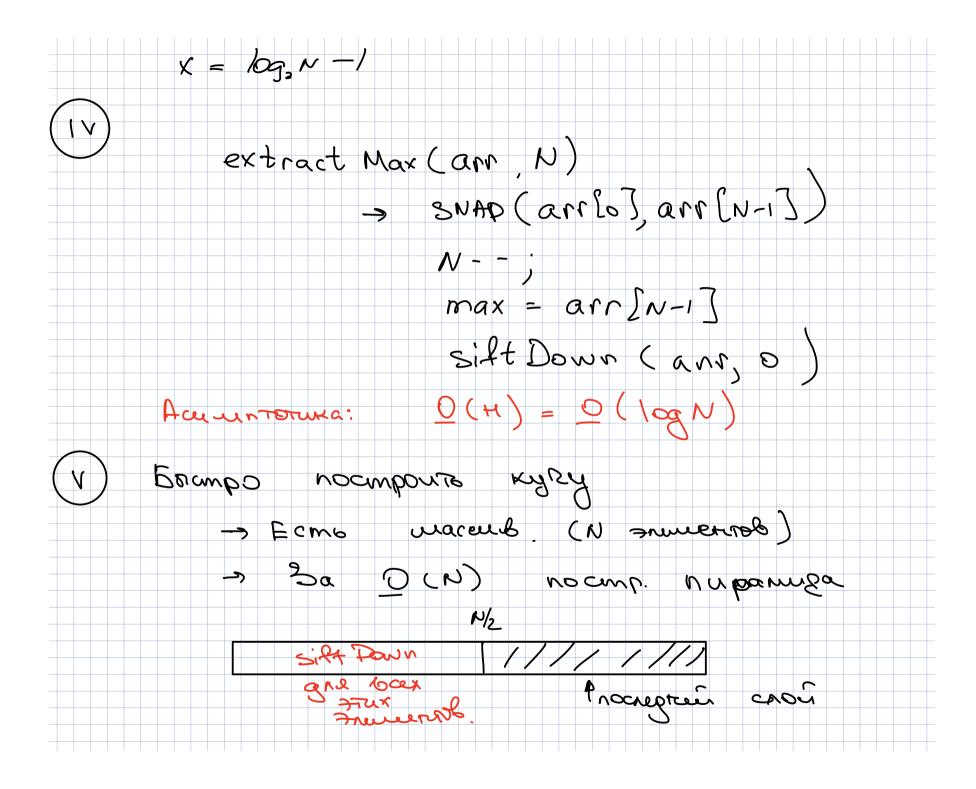
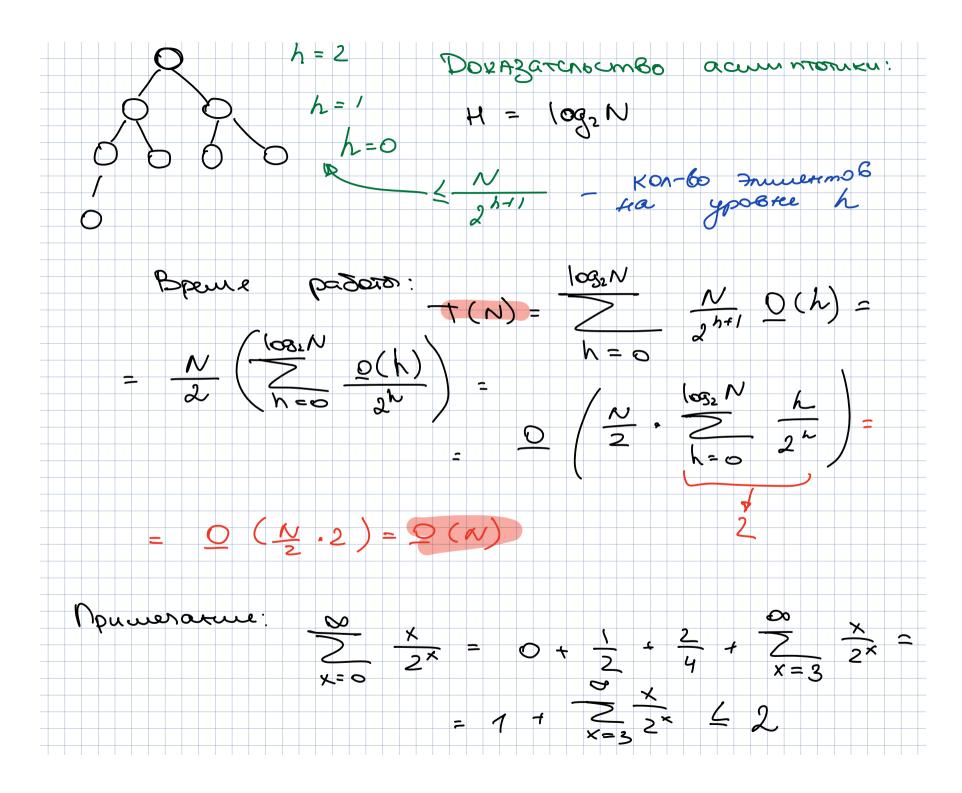
Nupamya ATA Lyra (orapege c npuopumemour) Heap Baromunanka: Paberos " pabero: 0000 ren bone ren 00000 Nound: node ~ 23 2xid+2 2xid+2 id+2+1 id+2+2 , Mpabori proeteox id=2+2 Réboui perseteux: id + 2 + 1

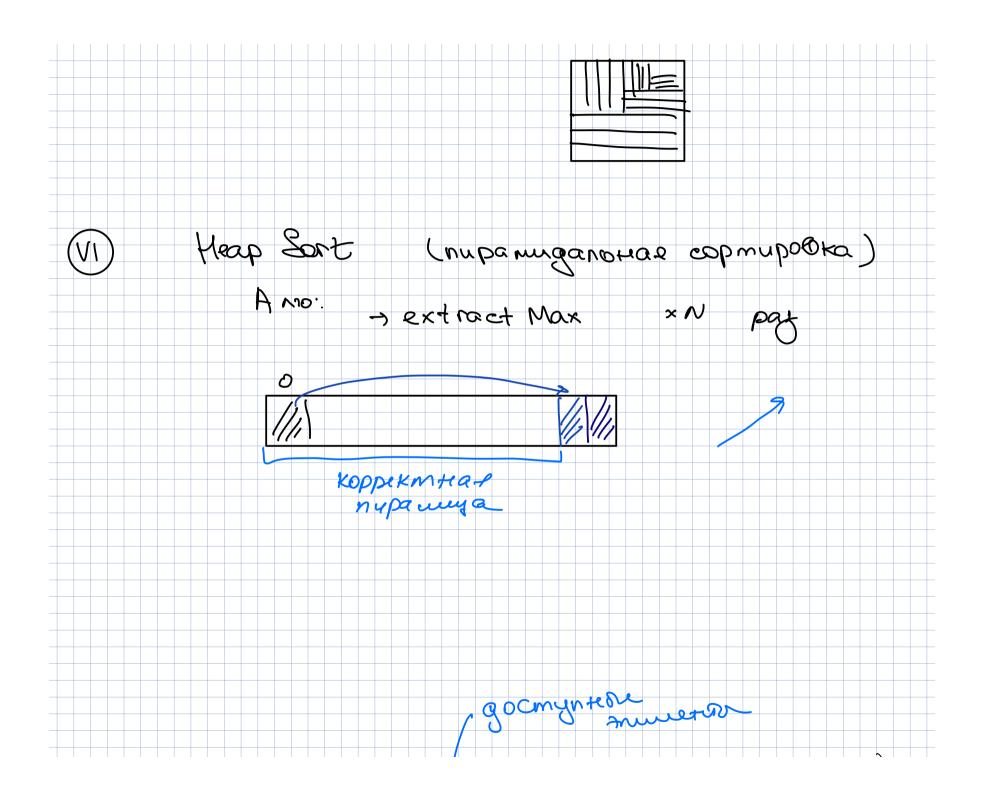


4 prease T(N) = D(4) M(N) = O(1) Aca un roraka. Noxou crytain Sift Down 20160 parame Pid-chs id_d2 Sift Down (arr, N, id) 3 while (id < N) } id-chs = id *2 +1 id_ch2 = id*2 +2 id max = id // B tee nononeur
if (id-chs < N) and (an lid chs] > an [id max]









push (larr AN, capacity, elem) IP(A)= To Site (arr, N even) Locaperty 212 0(1) arr[N]=elem; N++; sift Up (arr, N) resize ((int x) ann, N, int l capacity) int * new-am = rew int [2+ capacity] lor i=0... capacity
rew_arti]=arr[;] delete [] arr; arr = nun - arr capacity = capacite = 2

