Muhammed Beally

ULUGAY 130 1042697 I hereby pladge that I will strictly adhere to academic Allegaly interity codes and the work done on this examination To solely my own and I will not receive I give on help from to any body or source during this examination.

a) implement a stokal templated c++ function takes as a wray parameter Your function returns the median array without copying a modifying the array

b) Write static Jave decto-bin neturn it as string

template (closs T)

T* median (T arr [] , int n) }

T* med = new T[2]; int smaller counter = 0, bigger counter = 0;

if (n%2==1) Int smaller counter =0, bigger counter =0,

for (int ==0; T< n; ++1) } smaller counter = brages counter = 0;

for (int 3=0; 3< n; ++ 3) &

if (art[i] > art[i])

bigger counter ++?

else if (orr[]] < orr[[]] Smaller counter ++;

if (smaller counter == biggercounter)? med [O] = arr [[]; med [] = NULL;

3 return med;

continued for n%2==0

b) Static String dec-to-bin (int number) & String Builder str = new String Builder (); while (number) } Str. add (number %2); (21) number 1=2; 10101 160401 return (String) str. reverse (); 13 6 3 10 1011 4010 continue ... Tf (n %2=0) } bool f1=fabe, 12=false; for (int =0; i<n; ++i) } smaller counter = bigger counter = 0; for (int &= 0; j < n; j++) & if (ar [j] sar [i]) bigger counter++; elseif(orr[j](orr[i]) smaller counter ++; if (bigger counter - smaller counter == 1) } fl = tive; med [O] = arifi]; } If (smaller counter - bigger counter == 1) & f2 = true med[1] = orr[i]; } if (f1 8 8 42) return med; 3 11 end of template function