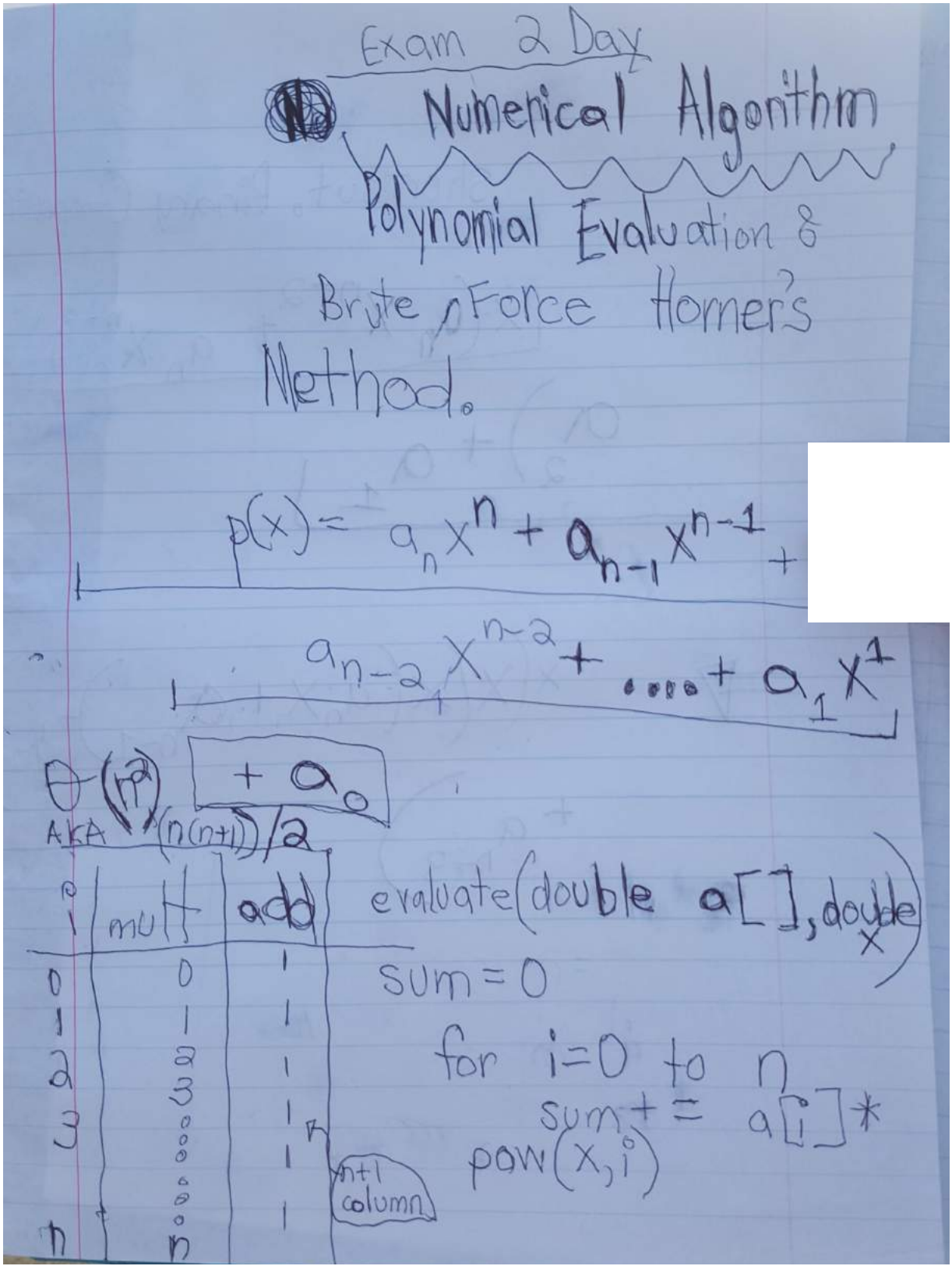
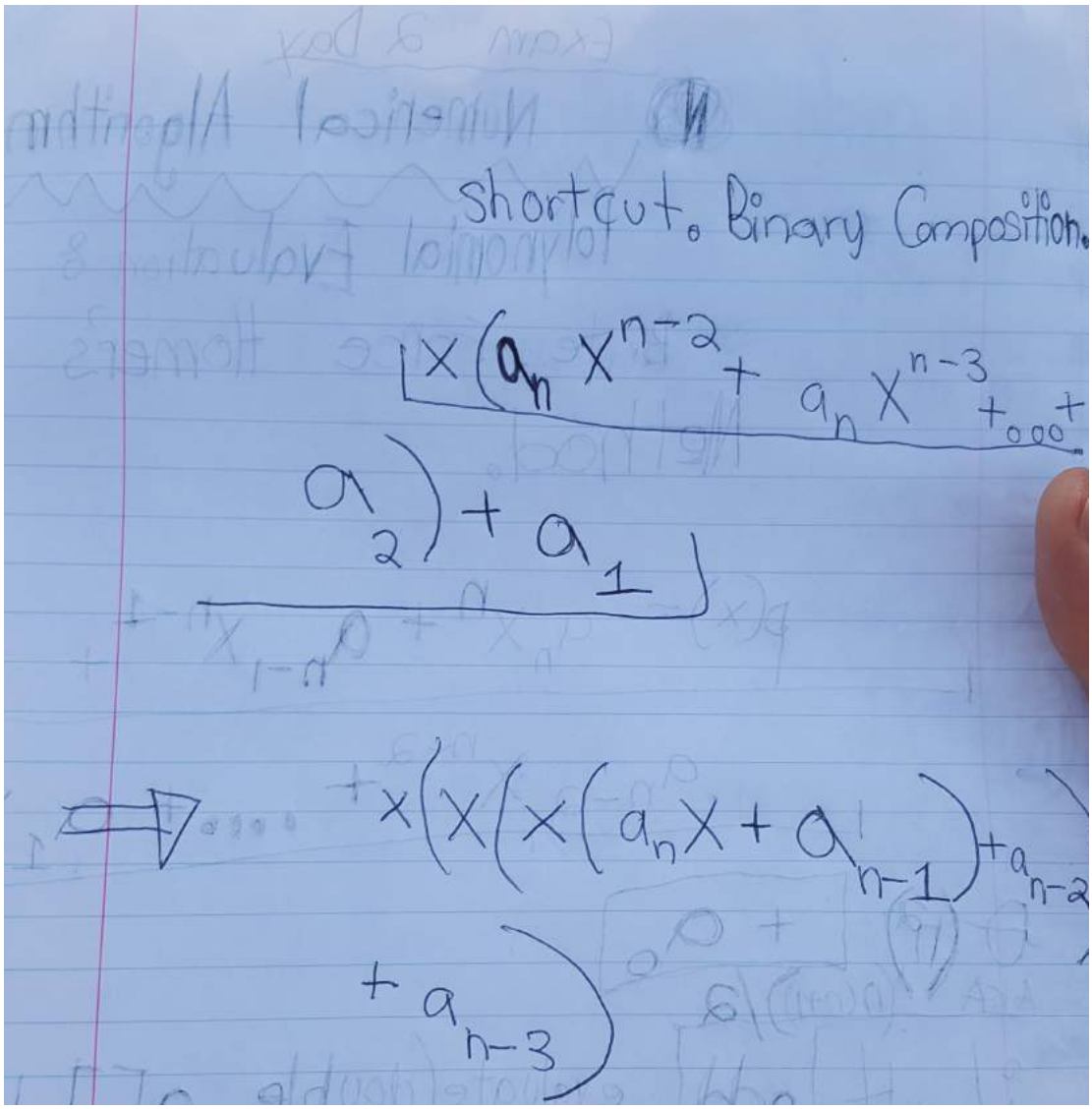
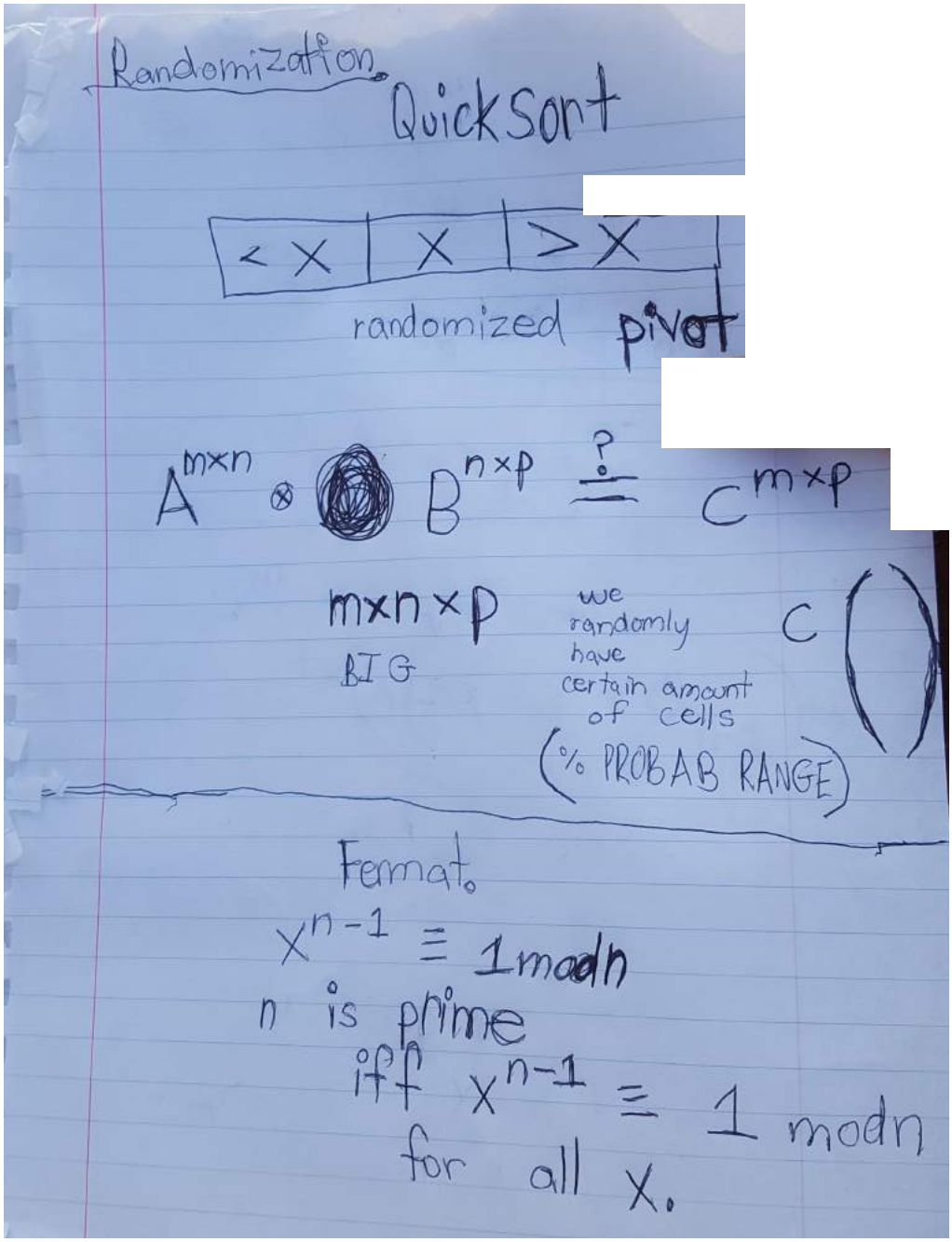
Analysis of Algorithms - CS 323
Lecture on date of exam - May 9, 2016
Notes by: Solomon Pinkhasov




Shortcut. Binary Composition.
$x(a_n x^{n-2} + a_n x^{n-3} + \ldots + a_2) + a_1)$
$x(x(x(a_n x + a_{n-1}) + a_{n-2}) + a_{n-3})$


Randomization
Quicksort
< x | x | > x
randomized pivot
$A^{m \times n} \otimes B^{n \times p} \stackrel{?}{=} C^{m \times p}$
$m \times n \times p$
BIG
we randomly have certain amount of cells (% PROBAB RANGE)
C ( )
Fermat.
$x^{n-1} \equiv 1 \bmod n$
n is prime
iff $x^{n-1} \equiv 1 \bmod n$
for all x.