Designs	Gate count	Ancilla inputs	Delay
K(1)	$O(n^{log_23})$	6n	O(n)
K(2)	$O(n^{log_26})$	4n	$O(n^{log_26})$
K(3)	$O(n^{log_23})$	5n + n/2 + 1	$O(n^{log_23})$
K(4)	$O(n^{log_26})$	3n + n/2	$O(n^{log_26})$
Proposed	$O(n^2)$	2n+1	$O(n^2)$

K(1),K(2),K(3), and K(4) indicates Karatsuba designs 1,2,3, and 4 proposed in