HW DAY 14	David Papp

[X] Completed this alone.

[ ]

I. B. $n=3$, $k=10$

C. No such value. n^3 will grow by more than any constant when n is high enough. (n^2 for)

D. $n=0$, $k=1000$

E. $n=0$, $k=1$

F. No such value. 3^n grows increasingly faster than 2^n.

G. No such value. $\log_2 n$ grows increasingly faster than $\log_{10} n$

H. $\log_{10}(n^2) = \frac{2\log n}{\log_{10} n} \Rightarrow \frac{2\log n}{\log_{10} n} > \log n \Rightarrow \log_n > \log_{10} n$

Same as G).

II.

	Array	LL
A.	1	1
B.	1	7
C.	n (worst case) 1 (best case, ov)	1
D.	n-5	5
E.	n	n
F.	n	n

Also the length?

G. array: 1 LL: 1

H.

	array	LL
delete	n	n
delete end	1	n
delete penultimate	2	n-1

J. Array: $\log n$ LL: n