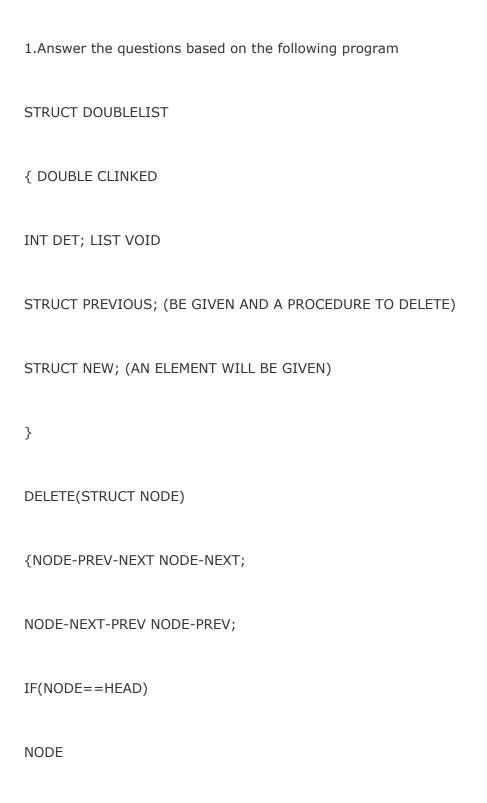
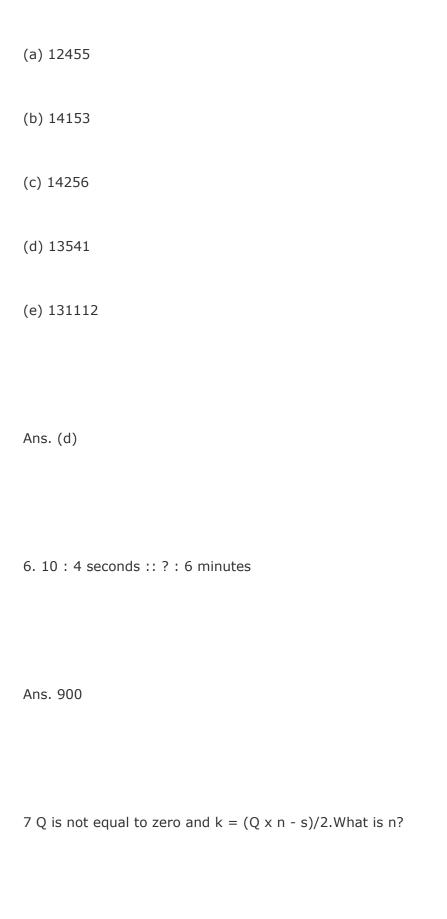
Quinnox Sample Paper Questions



}
Q. In what case the prev was
(a) All cases
(b) It does not work for the last element
(c) It does not for the first element
(d) None of these
2.Answer the questions based on the following program
VOID FUNCTION(INT KK)
{KK+=20;

```
}
VOID FUNCTION (INT K)
INT MM, N=&M
KN = K
KN+-=10;
}
3. What is the output of the following program
main()
{ int var=25,varp;
varp=&var;
varp p = 10;
```







(b)
$$(2 \times s \times k)/Q$$

(c)
$$(2 \times k - s)/Q$$

(d)
$$(2 \times k + s \times Q)/Q$$

(e)
$$(k + s)/Q$$

8. Given an array of integers, find the contiguous sub-array with the largest sum.

ANS. Can be done in O(n) time and O(1) extra space. Scan array from 1 to n. Remember the best sub-array seen so far and the best sub-array ending in i.

9. Given an array of length N containing integers between 1 and N, determine if it contains any duplicates.

ANS. [Is there an $O(n)$ time solution that uses only $O(1)$ extra space and does not destroy the original array?]
10. Sort an array of size n containing integers between 1 and K, given a temporary scratch integer array of size K.
ANS. Compute cumulative counts of integers in the auxiliary array. Now scan the original array, rotating cycles!
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