a i) when is a hush-pointer based implementation of a Jata structure suitable?

ii) when is a hash-sign-pointer based implementation of a Jata structure suitable?

A. i) Alling the hash of the pointer Jata gives the Jata structure an added layer of se carity. In case an adversary wishes to tamper with the Jata, it would have to recompute the hash-pointer to the note containing the Jata. This would in turn change the hash of the previous block (the block who's pointer

each node.

case 1: The hash function/key is public. In this case
a possible application is to detect disk failure or

some sort of errors due to lisk degradation.

case 2: The adversary doesn't know the hash function /

points to the current one), and so on. Thus the adversary would have to recompute the hash value for

there there is no way for the alversquy to modify the contents since it cannot replace the hash.

Thus an application Anash could be a centralized hedger. For ex- some contral authority (like a bank)

key of the hash function.

is the only one with a cress to the hash function. Any transaction can be recorded by the authority. Since the Data Structure is write-only for alversaries, it is only with hege () probability that one can add an entry by gressing the hash or molitying an entry.

ii) By Alling a Ligital signature as well to the pointer we can track whether an authorized war made the change. For ex- consider Asign to be a ledger of transaction now an entry like "A owes B 2 1000 can be added, however it will be trusted only if the entry is signed by A.

This allows the ledger mentioned above to be distributed i.e. each person maintains a copy of the data structure, a transaction when made is signed by the transactee and is broad casted to the remaining nodes. These nodes can verify the signature and reflect the changes on their local ledger.

Of course there is still the issue of conflicting

nedgers. This can be solved using for ex- proof of work. In case of conflict choose the copy that has the most work put in. This concept is

the fundamental behind crypto currency.