Document 0022

```
(During its centennial year , The Wall Street Journal will report events of the past century that stand as milestones of American business history . )

p:e-u-i q:i-h-h n:x n:x q:i-h-h named:x-c na
       THREE COMPUTERS THAT CHANGED the face of personal computing were launched in 1977 card:i-i-c n:x _ v_cause:e-i-p q:i-h-h n:x p:e-x-i a:e-p v:e-i-p _ v_cause:e-i-p p:e-u-i yofc:x-c
                                                                                                                                                                                                       Compound
         That year the Apple II , Commodore Pet and Tandy TRS-80 came to market quem:i-h-h nix q:i-h-h named:x-c na
The computers were crude by today 's standards . q:i-h-h n:x v_id:e-p-i n:x p:e-u-i time_n:x _ n:x _
         Apple II owners , for example , had to use their television sets as screens and stored data on audiocassettes .

v_qmodal:e-h _ v_as:e-i-p-i q:i-h-h n:x n_of:x _ n:x _ v_cause:e-i-p-h n:x p:e-u-i n:x _ ...
In addition , the Apple II was an affordable $ 1,298 p:e-u-i n:x _ q:i-h-h named:x-c named:x-c v_id:e-p-i q:i-h-h a:e-p n:x card:i-i-c _
                                                                     (compound) (ARGI) (ARG2) (ARG3) (ARG3
                                                                                                                                                                                                                                                                                                                                                                                                                              (ARG1)
   Big mainframe computers for business had been around for years a:e-p n:x n:x p:e-u-i n:x _ _ _ p:e-i p:e-u-i n:x _
   Current PCs are more than 50 times faster and have memory capacity 500 times greater than their 1977 counterparts a:e-p n:x _ a:e-e 
                                                         were many pioneer PC contributors .
v_there:e-i much-many_a:e-p n:x n:x _
                 Alan F. Shugart , currently chairman of Seagate Technology , led the team that developed the disk drives for PCs . named:x-c n
       IBM , the world leader in computers , did n't offer its first PC until August 1981 as many other companies entered the market named:x-c _ q:i-h-h _n_of:x-i _ n_of:x-i _ p:e-u-i _ n:x _ _ _ neg:e-h _v:e-i-p _ q:i-h-h _ord:i-i-c _ n:x _ p:e-u-i _ mofy:x-c _ yofc:x-c _ x:e-h-h _much-many_a:e-p _ a:e-i _ n_of:x-i _ v:e-i-p _ q:i-h-h _ n:x
   Today , PC shipments annually total some $ 38.3 billion world-wide time_n:x _ n:x n_of-to:x-i a:e-e v:e-i-i q:i-h-h n:x card:i-i-c card:i-i-c a:e-p _
```

1			