```
NFA F = (Q, 20, Z, 8, F)
DFA FD = (20, {203, Z, 8D, FD)
         FD = {HCA| HOF # 8}
         reach (9, a) = sd of states reachable from 9.

In F on reading symbol a
            S_{D}: Z \longrightarrow Z
            S_D(H,a) = \bigcup veach(2,a)
       Consider x & 2 accepted by F.
   Stake transitions in F on reading xin an acaptury path:

acaptury path:

90 91 92 92 93 ... by 9m F F
                 by b2 b3 .... bm = x
       State transitions in FD on reading x:
          {20} 3 3 H1 3 H2 3 ... 3 Hn, n= |x|
          H_1 = S_D(\{20\}, a_1)
            Suppose b_1 = \epsilon = b_2 and b_3 = a_1
                  q_3 \in H_1
           Suppose b_n = \epsilon + b_5 = a_2
             =) 95 € H2
                       2m e Hn => Hn n F ≠ Ø.
                                    =) Hn & to
    Suppose 2 is accepted by DFA FD.
    Suppose the states that Fo goes through on
```

reading & are:

Therefore, Faccepts same set as FD.