```
Const fu = (ip) =) {
                              test cases:
                                ip4: Stvs.lengthzzz 4. 1= Stv.length =3
   if (is IPU4(ip)) {
                                  str no leading zero.
       Yeturn 'IPV4';
                                  nam o ¿ num ¿ 155.
    if ( is IPV6 (TP)) {
                                 almost pass!
       return 'IPV6';
   > veturn' Neither';
function is IPU4 (IP) 9
     const sers = [p.splitl'.');
     if lstrs. length!==4) return false;
     for ( const str of strs) {
         if (str. length 7=2 & str(0) ==== 0) {

Yeturn false;

| 11 (str.length >= 1 sser.length <= 3)
      const nums = strs. map(str =) parseInt(str));
       for (consenum of nums) &
           if (! (num >= 0 A A num <= >55)) {
   return true;
```

```
function ISIPUG(TP) &
                                          fast cosses:
     conse sers = ip. splitl':');
                                               8 groups.
                                           (3 16 bits => 0 c num = 216
     if (5ths. length !=== 8) 9
                                            Of 1 & Str. length & 4.
        veturn false;
                                             If leading zero, num must be 0.
      for (const str of sers) (
                                                Strs.length === S.
          if ( ! (Str. length >= 1 &s
str. length <= 4)) 9
                                                 A. validate str length
           return false;
                                                  B. validate leading zero.
           if (ser.length 7=2 815 Strto) ===='o') {
               for (const a of ser) {
                  if (c1=z'o') return talse;
                            no need for leading zero check!
                              =) need to verify if consisting only valid hex numbers.
        conse nums = sers. map (ser = parseInt(ser));
        for (const num of nums) {
              Tf (!fnum>=0 DS num <=2**16)) {
                 return false;
         yeturn true;
```