

```
class Solution {
public:
    int getNumberOfBytes(vector<int>& data, int idx){
    int n=data.size();
    if(idx>=n) return -1;
    int header=data[idx]&Bwff;
    int first1 = header>>7;
    int first3 = header>>5;
    int first4 = header>>4;
    int first5 = header>>3;
8 9 10 11 12 13 14 × 17 18 19 20 21 22 23 24 × 25 × 26 27 × 28 9 30 31 32 33 34 35 36 37 38 × 39 40 41 42 43 44 45 46 47 48 × 46 47
                                   if((first1 ^ 0x0) == 0) return 1;
else if((first3 ^ 0x6) == 0)
                                            for(int i=idx+1; i<=idx+1; i++)</pre>
                                                      if(i>=n) return -1;
int cdata=data[i]&0xff;
int first2=cdata>>6;
if((first2 ^ 0x2) != 0) return -1;
                                            }
return 2;
                                    else if((first4 ^ 0xe) == 0)
                                           for(int i=idx+1; i<=idx+2; i++)
{</pre>
                                                    if(i>=n) return -1;
int cdata=data[i]&0xff;
int first2=cdata>>6;
if((first2 ^ 0x2) != 0) return -1;
                                            }
return 3;
                                   else if((first5 ^ 0x1e) == 0)
                                            for(int i=idx+1; i<=idx+3; i++)
{</pre>
                                                     if(i>=n) return -1;
int cdata=data[i]&0xff;
int first2=cdata>>6;
if((first2 ^ 0x2) != 0) return -1;
                                   }
else return -1;
                         }
bool validUtf8(vector<int>& data) {
   int idx=0;
```

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