```
NO_OF_CHARS = 256

def max_distinct_char(str, n):
        count = [0] * NO_OF_CHARS
    for i in range(n):
        count[ord(str[i])] += 1
    max_distinct = 0
    for i in range(NO_OF_CHARS):
        if (count[i] != 0):
            max_distinct += 1
    return max_distinct
def smallesteSubstr_maxDistictChar(str):
    n = len(str)     # size of given string
    max_distinct = max_distinct_char(str, n)
    minl = n     # result
    for i in range(n):
        for j in range(n):
            subs = str[i:j]
            subs_lenght = len(subs)


            sub_distinct_char = max_distinct_char(subs,   subs_lenght)
            if (subs_lenght < minl and
                max_distinct == sub_distinct_char):
                minl = subs_lenght
    return minl
if __name__ == "__main__":
```

```
str = input("")

l = smallesteSubstr_maxDistictChar(str);

print( l)
```