

```
# ?????????Python3.8# -*- coding: UTF-8 -*-import jsonimport
osfrom PIL import Image, ImageDraw, ImageFontimport randomwith
open('data/sh_sz.txt', 'r', encoding='utf-8-sig', newline
='\r\n') as f:    ddd=json.loads(f.read())with open('data/??
??2.txt', 'r', encoding='utf-8-sig', newline='\r\n') as f:
    ddd2=json.loads(f.read())with open('data/?????????.txt', '
r', encoding='utf-8-sig', newline='\r\n') as f:    ddd3=json
.loads(f.read())#### ?K????????? #####          ???? ???? ??##
0    date ??????? ????YYYY-MM-DD## 1    code ???? ????sh.600
000?sh????sz???## 2    open ?????? ???????4????????????## 3
high ??? ???????4????????????## 4    low ??? ???????4??????????
?## 5    close ?????? ???????4????????????## 6    preclose ????
? ???????4????????????## 7    volume ?????? ?????## 8    amount
????? ???????4????????????## 9    adjustflag ?????? ?????????????##
10    turn ??? ???????6??????%## 11    tradestatus ?????? 1???
?? 0???## 12    pctChg ?????????? ???????6?## 13    peTTM ????
? ???????6?## 14    psTTM ?????? ???????6?## 15    pcfNcfTTM
????? ???????6?## 16    pbMRQ ??? ???????6?## 17    isST ??S
T 1??0?## ???0? ???1? ???2? ???3? ???4? ???5?## ???6?
???7? ???8? ???9? ???10?def float_000(a):    return 0.
0 if a==" " else float(a)rrr1=[]rrr2=[]a="d"for dd in ddd:
    #print(dd[0])    #if dd[0][:3]!="of." and dd[4]=="1" and dd
[5]=="1" and dd[0] in ddd3 and dd[0][:6]!="sh.688" and dd[0]
[:4]!="sz.3":    if dd[0][:3]!="of." and dd[4]=="1" and dd[5]
]=="1":    #print(dd)    if os.path.exists(f'data/k_
line_{a}/{dd[0]}_{a}.txt'): #?????????    with open(f
'data/k_line_{a}/{dd[0]}_{a}.txt', 'r', encoding='utf-8-sig'
, newline='\r\n') as f:    ooo=json.loads(f.read
())    if ooo!=[] and len(ooo)>5:    if dd[0][:6
]!="sh.688" and dd[0][:4]!="sz.3":    AA=sum(flo
at_000(oo[12])>=9.8 for oo in ooo) # ???    else:
    AA=sum(float_000(oo[12])>=19.8 for oo in ooo)
# ???    rrr1.append([dd, ooo[-1][5], AA, len(ooo)]
)    if dd[0][:6]!="sh.688" and dd[0][:4]!="sz.3":
    VV=sum(float_000(oo[12])<=-9.8 for oo in ooo)
# ???    else:    VV=sum(float_000(oo[1
2])<=-19.8 for oo in ooo) # ???    rrr2.append([dd,
ooo[-1][5], VV, len(ooo)])rrr1=sorted(rrr1, key=lambda x: x
[2]/x[3], reverse=True)print(f"\n?????????20?")for rr in rr
```

```
r1[:20]:    print(f"{rr[0][0]} {rr[0][1]} {rr[3]}? {rr[1]}
? {round(rr[2]*100/rr[3], 2)}%")##print(f"\n????????20?")
##for rr in rrr1[-20:]:##    print(f"{rr[0][0]} {rr[0][1]}
{rr[3]}? {rr[1]}? {round(rr[2]*100/rr[3], 2)}%")rrr2=sorte
d(rrr2, key=lambda x: x[2]/x[3], reverse=True)print(f"\n????
????20?")for rr in rrr2[:20]:    print(f"{rr[0][0]} {rr[0]
[1]} {rr[3]}? {rr[1]}? {round(rr[2]*100/rr[3], 2)}%")##pr
int(f"\n????????20?")##for rr in rrr2[-20:]:##    print(f"
{rr[0][0]} {rr[0][1]} {rr[3]}? {rr[1]}? {round(rr[2]*100/
rr[3], 2)}%")print("???1????????2????9.8%????19.8
%????")print("--end--")
```