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This article uses pyautocad library to connect to CAD, the code is as follows:

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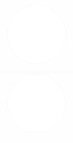
1. Author: DalNur
2. Email: [liyang@alu.hit.edu.cn](mailto:liyang@alu.hit.edu.cn)

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Six, the end



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13

1. pyacad = Autocad(create\_if\_not\_exists=True)
2. pyacad.prompt("Hello! Autocad from pyautocad.")

Your browser is currently zoomed, and the page may be misaligned. It is recommended to display at 100% size.

1. print(pyacad.doc.Name)

# 2. Copy and delete

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copyObj = EllObj.Copy()

*#* 原位置复制，复制的图元与原图元重合。

copyObj.Delete()

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# Three, translation and rotation

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startPnt = APoint(0, 0)

endPnt = APoint(30, 0)

EllObj.Move(startPnt,endPnt)

BasePoint = APoint(0, 0)

RotationAngle = math.radians(30)

EllObj.Rotate(BasePoint, RotationAngle)

*# BasePoint*为旋转基点，即旋转轴过此点且平行于*z*轴；

*# RotationAngle*为旋转角度（弧度制），角度正负由右手系确定。

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**Fourth, mirroring and zooming**

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startPnt = APoint(50, 50)

endPnt = APoint(50, -50)

MirObj = EllObj.Mirror(startPnt, endPnt)

*# startPnt*为镜像线起点，*endPnt*为镜像线终点；

*#* 镜像后原图元不删除。

BasePoint = APoint(0, 0)

ScaleFactor = 5

SclEntObj = EllObj.ScaleEntity(BasePoint, ScaleFactor)

*# ScaleFactor*为缩放比例。

**Five, array**

Strongly not

Not recomme

so so recomme

nd

highly recomme

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1. numberOfRows = 5
2. numberOfColumns = 5
3. numberOfLevels = 1
4. distanceBwtnRows = 20
5. distanceBwtnColumns = 20
6. distanceBwtnLevels = 1
7. retObj = EllObj.ArrayRectangular(numberOfRows, numberOfColumns, numberOfLevels,
8. distanceBwtnRows, distanceBwtnColumns, distanceBwtnLevels)

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3. [自己建网站](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRfLFRfYFRFjFRFKFRFDFRD3FRPDFRm3FRfdFRF7FhkdpvbqnzuVmLKV5HRvnW6dFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHY1rjnzPHRsP6&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=3115400&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=626&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=3&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=856073789955248857&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1)
4. [b2b2c电商平台](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qmWFBnhn-fWR-wHT-f1b-fYn-f1m-fbf-fYn-fH6hUZNopHYknzuVmLKV5HmLPjRYFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHY4uWIBuhRLP6&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=1853089&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=2344&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=13&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=2066728450273960799&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1)
5. [程序员外包](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRc1FRPjFRfsFRmzFRfYFRckFRPDFRRzFRcsFRujFhkdpvbqnHfhUyPsUHY1P16sPBuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbqnjRkm1N9PjR&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=2118978&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=1711&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=14&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=819493750673232323&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1)
6. [租用个人服务器](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRfLFRRzFRf1FRn1FRc3FRmvFRn3FRPaFRcLFRu7FRP7FRmkFRnvFRmLFhkdpvbqnHRhUyPsUHYvPj6Lrauk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbquhm1ujIbrAD&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=487766&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=743&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=15&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=7958426436121327644&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1)
   1. **Circular array**

**4** [程序员外包网站](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRc1FRPjFRfsFRmzFRfYFRckFRPDFRRzFRcsFRujFRPDFRm3FRfdFRF7FhkdpvbqPauVmLKV5HRYn16LFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHd9mHb4nANhu0&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=2325218&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=1655&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=4&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=6728413789323799737&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1)

1. [上网行为管理器](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRn4FRPAFRPDFRm3FRfsFRfsFRP7FR7KFRc4FRwjFRnsFRNDFRnvFRmLFhkdpvbqnHmhUyPsUHYkrHcLniuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbqn1PhmhNhPvD&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=1615979&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=435&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=16&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=7782555745192504152&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1)
   1. centerPoint = APoint(30, 0)
   2. noOfObjects = 4

|  |  |  |  |
| --- | --- | --- | --- |
| **5** [erp管理系统](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qugFsFRc4FRwjFRnsFRNDFRPAFRcdFRPDFRc1FhkdpvbqPiuVmLKV5HDznWTLPauk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbqnyu9Pj6YuHb&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=2584975&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=1172&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=5&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=2111800266928082142&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | **17** [多商户商城](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRcvFRRsFRn4FRPjFRFaFRDLFRn4FRPjFRc1FRnLFhkdpvbqnHThUyPsUHYLP1DLPzuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbquj-9uyw-PvR&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=3598647&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=647&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=17&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=746545422799126772&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) |  | |
| **6** [国际海运价格表](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRc4FRuKFRFjFRPKFRFKFRD1FRfYFRPaFRFjFRwaFRc3FRmkFRckFRNDFhkdpvbqPBuVmLKV5HbdrHTdFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHd9uyNhnWcsn6&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=1949063&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=461&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=6&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=7568876436023825833&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | **18** [自动打标贴标机](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRfLFRfYFRcvFR7AFRcYFRmzFRckFRNKFRPjFRm4FRckFRNKFRFaFRuKFhkdpvbqnH6hUyPsUHYvPHDzPzuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbquADzn1nvPym&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=799159&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=1229&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=18&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=7876220920344695832&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | 3 | angleToFill = 3.14 |
| **7** [程序员外包平台](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRc1FRPjFRfsFRmzFRfYFRckFRPDFRRzFRcsFRujFRnvFRFDFRPjFRD3FhkdpvbqPzuVmLKV5Hn3rj0sFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHYdnAc4uWRdmf&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=2581938&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=601&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=7&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=6172804539633627423&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | **19** [钢格栅](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRc3FRfvFRc3FRmkFRfdFRDYFhkdpvbqnHbhUyPsUHYdPWfzriuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbquHRkPvcvPym&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=969582&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=1838&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=19&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=17417907644617762005&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | 4 | retObj = EllObj.ArrayPolar(noOfObjects, angleToFill, centerPoint) |
| **8** [pdf文件编辑器](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qTAwhFRP7FRnYFRFjFRu7FRckFRRsFRFjFR7DFRnvFRmLFhkdpvbqrauVmLKV5HnYP1bdFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHdbmH7Bryf1r0&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=16401482&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=201&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=8&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=1987812658791625524&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | **20** [大数据分析师](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRcYFRm1FRPKFRuDFRF7FRwDFRcLFRfvFRP7FRmvFRPKFRDvFhkdpvbqnW0hUyPsUHYznHRkPiuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbqmHIhuycznhD&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=1261462&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=676&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=20&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=2316363563136785074&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | 5 |  |
| **9** [数据恢复精灵](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRPKFRuDFRF7FRwDFRFaFRfvFRc3FRcYFRF7FR7aFRnkFRR4FhkdpvbqriuVmLKV5HfsPjTvFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHYdnWNBPHczmf&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=13294497&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=301&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=9&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=2159838325067889936&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | **21** [python入门](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qTZ-YpAq8FRn3FRNaFRn1FRndFhkdpvbqnWDhUyPsUHY1njmYriuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbqPHNbuH9WrAR&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=5291879&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=366&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=21&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=731431193130502679&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | 6 | " 运行上述（1）、（2）代码报错，报错内容为：KeyError: 9。" |
| **10** [pdf下载](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qTAwhFRPAFRnzFRfYFRf3FhkdpvbqnH0hUyPsUHYYnW0YFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHY1mWbYujD4u6&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=9130813&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=37&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=10&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=14944742845688894658&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | **22** [比表面测试仪](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRckFRn3FRckFRNDFRn1FRRvFRczFRRzFRPKFRfYFRfzFRnLFhkdpvbqnWchUyPsUHY4nj6YnBuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbqnHFhrADvuyD&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=970826&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=2444&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=22&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=2398576293827316598&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) | 7 | " 报错原因未知，虽然报错，但能顺利执行，不影响使用。" |
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Fourth, mirroring and zooming

# Six, the end

## The above is a brief introduction about the AutoCAD modification part.

  Due to limited space, some non-critical functions have not been introduced in detail. If you have any questions, please email us.

  The Tibetan writing is full of thoughts, and there are poems and books in the belly. I hope you can wander happily in the pāo of knowledge.

  Because I am learning Python wildly, my level is really limited, and there are inevitably some omissions in the article. Please feel free to criticize

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## and correct me.

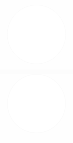
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## Finally, I wish you all the siege lions, cherish life and protect the hairline!

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* 1. Rectangular array



* 1. Circular array

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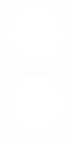
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[from pyautocad import Autocad, APoint import math import numpy as np # 与autoCAD创建连接 # 当有正在运行的CAD程序时，](https://blog.csdn.net/weixin_43496130/article/details/105827187)

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Connection and library import #!/usr/bin/env python # -\*- coding: utf-8 -\*-'''==================== =========Author: DalNurEmail: liyang@alu.hit.edu.cnLast Upd…](https://blog.csdn.net/weixin_32770697/article/details/113479128)  [cad python \_ use python to control Autocad : py autocad \_Ruocheng...](https://blog.csdn.net/weixin_35906864/article/details/112017039) 8-23  [You can use ActiveX interface, and the autocad objects stored in python save some automated operations that can simplify operations (you can iterate objects, search o…](https://blog.csdn.net/weixin_35906864/article/details/112017039)  [Python secondary development of AutoCAD Introduction \_Hulunbuir\_py AutoCAD](https://blog.csdn.net/Hulunbuir/article/details/83715279) 9-16  [Python secondary development AutoCAD selection set 1. 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Set the respective spac…](https://blog.csdn.net/weixin_43908013/article/details/118651907)  [python autocad display \_ implementation of Python AutoCAD system settings...](https://blog.csdn.net/weixin_35933582/article/details/112964960) 9-1  [/usr/bin/env python # -\*- coding: utf-8 -\*- ''' === Author:DalNur Email: liyang@alu.hit.edu.cn Last Update: 2020.03.02 19:55 === ''' from pyautocad import Autocad...](https://blog.csdn.net/weixin_35933582/article/details/112964960)  [python操作cad的模块\_利用python控制Autocad:pyautocad...](https://blog.csdn.net/weixin_39873208/article/details/110369168) 9-15  [发现pyautocad模块:可以用python控制autocad的包。今天把文档中的重点内容摘录出来,以后绘图、计算大工程量、或者识别施工图的时候时候也许可以用到。 一、连接…](https://blog.csdn.net/weixin_39873208/article/details/110369168)  [基于Python AutoCAD ActiveX 二次开发，pyautocad应用技术](https://blog.csdn.net/qq_44792233/article/details/102946651) [XIADA\_2019](https://blog.csdn.net/qq_44792233) 8221  [AutoCAD应用程序开发系列 基于Python AutoCAD ActiveX 二次开发技术 主要库：pyautocad==0.2.0 内容#：基于Python AutoCAD ActiveX 二次开发，学习笔记 更新日…](https://blog.csdn.net/qq_44792233/article/details/102946651)  [Python操作AUTOCAD,pyautocad学习笔记](https://blog.csdn.net/neemxyang/article/details/83216006) [neemxyang的博客](https://blog.csdn.net/neemxyang) 5791  [本文章用到了pyautocad这个第三方库，安装如下： python -m pip install pyautocad 安装成功后，即可使用。](https://blog.csdn.net/neemxyang/article/details/83216006)  report  [python dwg样式修改\_如何使用python将autocad的dwg文件...](https://blog.csdn.net/weixin_30114595/article/details/113961333) 9-17  [有没有办法用python把dwg文件AutoCAD改成png格式或pdf格式。在 我试着看了很多文件,但没有一个回答我的问题``` from future import print\_function from os.path…](https://blog.csdn.net/weixin_30114595/article/details/113961333) | | | | | | | Your browser is currently zoomed, and the page may be misaligned. 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[程序员外包网站](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRc1FRPjFRfsFRmzFRfYFRckFRPDFRRzFRcsFRujFRPDFRm3FRfdFRF7FhkdpvbqPauVmLKV5HRYn16LFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHd9mHb4nANhu0&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=2325218&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=1655&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=4&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=6728413789323799737&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) **16** [上网行为管理器](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRn4FRPAFRPDFRm3FRfsFRfsFRP7FR7KFRc4FRwjFRnsFRNDFRnvFRmLFhkdpvbqnHmhUyPsUHYkrHcLniuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbqn1PhmhNhPvD&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=1615979&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=435&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=16&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=7782555745192504152&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) 5. [erp管理系统](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qugFsFRc4FRwjFRnsFRNDFRPAFRcdFRPDFRc1FhkdpvbqPiuVmLKV5HDznWTLPauk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbqnyu9Pj6YuHb&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=2584975&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=1172&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=5&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=2111800266928082142&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) **17** [多商户商城](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRcvFRRsFRn4FRPjFRFaFRDLFRn4FRPjFRc1FRnLFhkdpvbqnHThUyPsUHYLP1DLPzuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbquj-9uyw-PvR&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=3598647&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=647&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=17&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=746545422799126772&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) 6. [国际海运价格表](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRc4FRuKFRFjFRPKFRFKFRD1FRfYFRPaFRFjFRwaFRc3FRmkFRckFRNDFhkdpvbqPBuVmLKV5HbdrHTdFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHd9uyNhnWcsn6&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=1949063&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=461&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=6&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=7568876436023825833&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) **18** [自动打标贴标机](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRfLFRfYFRcvFR7AFRcYFRmzFRckFRNKFRPjFRm4FRckFRNKFRFaFRuKFhkdpvbqnH6hUyPsUHYvPHDzPzuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbquADzn1nvPym&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=799159&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=1229&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=18&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=7876220920344695832&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) 7. [程序员外包平台](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRc1FRPjFRfsFRmzFRfYFRckFRPDFRRzFRcsFRujFRnvFRFDFRPjFRD3FhkdpvbqPzuVmLKV5Hn3rj0sFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHYdnAc4uWRdmf&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=2581938&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=601&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=7&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=6172804539633627423&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) **19** [钢格栅](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRc3FRfvFRc3FRmkFRfdFRDYFhkdpvbqnHbhUyPsUHYdPWfzriuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbquHRkPvcvPym&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=969582&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=1838&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=19&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=17417907644617762005&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) 8. [pdf文件编辑器](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qTAwhFRP7FRnYFRFjFRu7FRckFRRsFRFjFR7DFRnvFRmLFhkdpvbqrauVmLKV5HnYP1bdFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHdbmH7Bryf1r0&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=16401482&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=201&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=8&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=1987812658791625524&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) **20** [大数据分析师](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRcYFRm1FRPKFRuDFRF7FRwDFRcLFRfvFRP7FRmvFRPKFRDvFhkdpvbqnW0hUyPsUHYznHRkPiuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbqmHIhuycznhD&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=1261462&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=676&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=20&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=2316363563136785074&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) 9. [数据恢复精灵](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qFRPKFRuDFRF7FRwDFRFaFRfvFRc3FRcYFRF7FR7aFRnkFRR4FhkdpvbqriuVmLKV5HfsPjTvFMDqmLPbUhF9pywdgvPsTBuzmWYkFMF15HDhTvN_UANzgv-b5HDhTv-b5HuBPHF9mHc4rjNWmHPWm1chTLwGujY3FMfqIZKWUA-WpvNbndqCmzuYujY1nHm1nWTsFMwVT1YkPWnkrjT3n1D4FMwd5gR1nHm1nWTsFMRqpZwYTZn-nYD-nbm-nbuBUAqMFHF7mLPbUBRzwy4-Iauv5HchpHYdnWNBPHczmf&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=13294497&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=301&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=9&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=2159838325067889936&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) **21** [python入门](https://cpro.baidu.com/cpro/ui/uijs.php?en=mywWUA71T1YsFh7sT7qGujYsFhPC5H0huAbqrauGTdq9TZ0qnauJp1dWnWPWmvD3PHc4myDdnWuBFh_qTZ-YpAq8FRn3FRNaFRn1FRndFhkdpvbqnWDhUyPsUHY1njmYriuk5yP1uA4Bmy-bINqWTZchThcqniuzT1YkFMP-UAk-T-qGujYkFMPGujYvmWRzmyDzrH6dmvD1mvnzFMPYpyfqrauY5gwsmvkGmvV-ujPxpAnhIAfqn1Dvn1cLnauYUgnqnHm1nH6LrjnkriuYIHddn1Dvn1cLnaud5y9YIZK1FHPKFHFAFHFAmhkEuzRzwyP1uA3-nbN8ugfhIWYzFhbqPHNbuH9WrAR&amp;besl=0&amp;c=news&amp;cf=1&amp;cvrq=5291879&amp;expid=204171_204509_208183&amp;fr=37&amp;fv=0&amp;haacp=366&amp;img_typ=0&amp;itm=0&amp;lu_idc=gz&amp;lukid=21&amp;lus=6b52aa2985ca3cc2&amp;lust=61447caf&amp;luwtr=731431193130502679&amp;mscf=0&amp;n=10&amp;nttp=1&amp;p=baidu&amp;pbs=228840&amp;sce=7&amp;sr=0&amp;ssp2=1&amp;tpl=baiduCustITagLinkUnitRankCol&amp;tsf=dtp%3A1&amp;u=%2FHulunbuir%2Farticle%2Fdetails%2F97393167&amp;uicf=lurecv&amp;urlid=0&amp;eot=1) 10. 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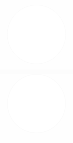
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