

**çıktılar 4 parça, yıldızlarla ayrılmış biçimde her bölümde bir fonksiyon denenmiştir.**

**ilki data.csv dosyasının orijinal hali**

**ikincisi set\_items fonksiyonunun "age" key'ine 10 set edilmesi ve sort edilmesi**

**üçüncüsü add\_item fonksiyonunun "age" key'ine 1,2,3 eklenmesi ve sort edilmesi**

**dördüncüsü delete\_item fonksiyonunun "age" key'inin silinmesi ve sort edilmesi şeklindedir.**

**youtube link: <https://www.youtube.com/watch?v=Rl01dnCaTS4>**

vboxuser@Ubuntu22:~/Desktop\$ ./a.out

```
Key: age      Value: 25
Key: age      Value: 12
Key: age      Value: 556
Key: age      Value: 1
Key: age      Value: 192561
Key: weight   Value: 12.560000
Key: weight   Value: 664.200000
Key: weight   Value: 5.500000
Key: blood_type Value:
Key: blood_type Value:
Key: blood_type Value:
Key: height   Value: 10.500000
Key: height   Value: 20.250000
Key: height   Value: 30.750000
Key: height   Value: 40.200001
Key: score    Value: 30
Key: score    Value: 45
Key: score    Value: 120
Key: price    Value: 9.800000
Key: price    Value: 7.600000
Key: value    Value: 15.300000
Key: value    Value: 25.799999
Key: value    Value: 35.599998
Key: value    Value: 48.900002
Key: value    Value: 56.200001
Key: quantity Value: 5
Key: quantity Value: 10
Key: quantity Value: 15
Key: quantity Value: 20
Key: amount   Value: 18.900000
Key: amount   Value: 24.700000
Key: amount   Value: 33.600000
Key: letter   Value:
Key: letter   Value:
Key: letter   Value:
Key: letter   Value:
Key: temperature Value: 22.500000
Key: temperature Value: 30.799999
Key: temperature Value: 38.099998
Key: temperature Value: 42.599998
Key: count    Value: 8
Key: count    Value: 16
Key: count    Value: 32
Key: count    Value: 55.400000
```

```
Key: temperature      Value: 42.599998
Key: count            Value: 8
Key: count            Value: 16
Key: count            Value: 32
Key: distance         Value: 55.400000
Key: distance         Value: 67.900000
Key: speed            Value: 40.500000
Key: speed            Value: 55.200001
Key: speed            Value: 60.900002
Key: speed            Value: 75.300003
Key: size             Value: 100
Key: size             Value: 200
Key: size             Value: 300
Key: size             Value: 400
Key: balance          Value: 500.250000
Key: balance          Value: 1000.500000
*****
Key: age              Value: 10
Key: amount           Value: 18.900000
Key: amount           Value: 24.700000
Key: amount           Value: 33.600000
Key: balance          Value: 500.250000
Key: balance          Value: 1000.500000
Key: blood_type       Value:
Key: blood_type       Value:
Key: blood_type       Value:
Key: count            Value: 8
Key: count            Value: 16
Key: count            Value: 32
Key: distance         Value: 55.400000
Key: distance         Value: 67.900000
Key: height           Value: 10.500000
Key: height           Value: 20.250000
Key: height           Value: 30.750000
Key: height           Value: 40.200001
Key: letter           Value:
Key: letter           Value:
Key: letter           Value:
Key: letter           Value:
Key: price            Value: 9.800000
Key: price            Value: 7.600000
Key: quantity         Value: 5
Key: quantity         Value: 10
Key: quantity         Value: 15
Key: quantity         Value: 20
```

```
Key: price      Value: 7.600000
Key: quantity   Value: 5
Key: quantity   Value: 10
Key: quantity   Value: 15
Key: quantity   Value: 20
Key: score      Value: 30
Key: score      Value: 45
Key: score      Value: 120
Key: size       Value: 100
Key: size       Value: 200
Key: size       Value: 300
Key: size       Value: 400
Key: speed      Value: 40.500000
Key: speed      Value: 55.200001
Key: speed      Value: 60.900002
Key: speed      Value: 75.300003
Key: temperature Value: 22.500000
Key: temperature Value: 30.799999
Key: temperature Value: 38.099998
Key: temperature Value: 42.599998
Key: value      Value: 15.300000
Key: value      Value: 25.799999
Key: value      Value: 35.599998
Key: value      Value: 48.900002
Key: value      Value: 56.200001
Key: weight     Value: 12.560000
Key: weight     Value: 664.200000
Key: weight     Value: 5.500000
```

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```
Key: age      Value: 1
Key: age      Value: 2
Key: age      Value: 3
Key: amount   Value: 18.900000
Key: amount   Value: 24.700000
Key: amount   Value: 33.600000
Key: balance  Value: 500.250000
Key: balance  Value: 1000.500000
Key: blood_type Value:
Key: blood_type Value:
Key: blood_type Value:
Key: count    Value: 8
Key: count    Value: 16
Key: count    Value: 32
Key: distance Value: 55.400000
Key: distance Value: 67.000000
```



Key: distance Value: 55.400000  
Key: distance Value: 67.900000  
Key: height Value: 10.500000  
Key: height Value: 20.250000  
Key: height Value: 30.750000  
Key: height Value: 40.200001  
Key: letter Value:  
Key: letter Value:  
Key: letter Value:  
Key: letter Value:  
Key: price Value: 9.800000  
Key: price Value: 7.600000  
Key: quantity Value: 5  
Key: quantity Value: 10  
Key: quantity Value: 15  
Key: quantity Value: 20  
Key: score Value: 30  
Key: score Value: 45  
Key: score Value: 120  
Key: size Value: 100  
Key: size Value: 200  
Key: size Value: 300  
Key: size Value: 400  
Key: speed Value: 40.500000  
Key: speed Value: 55.200001  
Key: speed Value: 60.900002  
Key: speed Value: 75.300003  
Key: temperature Value: 22.500000  
Key: temperature Value: 30.799999  
Key: temperature Value: 38.099998  
Key: temperature Value: 42.599998  
Key: value Value: 15.300000  
Key: value Value: 25.799999  
Key: value Value: 35.599998  
Key: value Value: 48.900002  
Key: value Value: 56.200001  
Key: weight Value: 12.560000  
Key: weight Value: 664.200000  
Key: weight Value: 5.500000

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Key: amount Value: 18.900000  
Key: amount Value: 24.700000  
Key: amount Value: 33.600000  
Key: balance Value: 500.250000

Key: amount Value: 18.900000  
Key: amount Value: 24.700000  
Key: amount Value: 33.600000  
Key: balance Value: 500.250000  
Key: balance Value: 1000.500000  
Key: blood\_type Value:  
Key: blood\_type Value:  
Key: blood\_type Value:  
Key: count Value: 8  
Key: count Value: 16  
Key: count Value: 32  
Key: distance Value: 55.400000  
Key: distance Value: 67.900000  
Key: height Value: 10.500000  
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Key: height Value: 30.750000  
Key: height Value: 40.200001  
Key: letter Value:  
Key: letter Value:  
Key: letter Value:  
Key: letter Value:  
Key: price Value: 9.800000  
Key: price Value: 7.600000  
Key: quantity Value: 5  
Key: quantity Value: 10  
Key: quantity Value: 15  
Key: quantity Value: 20  
Key: score Value: 30  
Key: score Value: 45  
Key: score Value: 120  
Key: size Value: 100  
Key: size Value: 200  
Key: size Value: 300  
Key: size Value: 400  
Key: speed Value: 40.500000  
Key: speed Value: 55.200001  
Key: speed Value: 60.900002  
Key: speed Value: 75.300003  
Key: temperature Value: 22.500000  
Key: temperature Value: 30.799999  
Key: temperature Value: 38.099998  
Key: temperature Value: 42.599998  
Key: value Value: 15.300000  
Key: value Value: 25.799999  
Key: value Value: 35.599998

```
Key: blood_type      Value:
Key: count           Value: 8
Key: count           Value: 16
Key: count           Value: 32
Key: distance        Value: 55.400000
Key: distance        Value: 67.900000
Key: height          Value: 10.500000
Key: height          Value: 20.250000
Key: height          Value: 30.750000
Key: height          Value: 40.200001
Key: letter          Value:
Key: letter          Value:
Key: letter          Value:
Key: letter          Value:
Key: price           Value: 9.800000
Key: price           Value: 7.600000
Key: quantity        Value: 5
Key: quantity        Value: 10
Key: quantity        Value: 15
Key: quantity        Value: 20
Key: score           Value: 30
Key: score           Value: 45
Key: score           Value: 120
Key: size            Value: 100
Key: size            Value: 200
Key: size            Value: 300
Key: size            Value: 400
Key: speed           Value: 40.500000
Key: speed           Value: 55.200001
Key: speed           Value: 60.900002
Key: speed           Value: 75.300003
Key: temperature     Value: 22.500000
Key: temperature     Value: 30.799999
Key: temperature     Value: 38.099998
Key: temperature     Value: 42.599998
Key: value           Value: 15.300000
Key: value           Value: 25.799999
Key: value           Value: 35.599998
Key: value           Value: 48.900002
Key: value           Value: 56.200001
Key: weight          Value: 12.560000
Key: weight          Value: 664.200000
Key: weight          Value: 5.500000
vboxuser@Ubuntu22:~/Desktop$
```