```
koefkortest <-function(u, k, alfa) {
n = length(u)
ak = u[1 : (n- k)]
bk = u[(k + 1) : n]
Ak = mean(ak)
Bk = mean(bk)
sa = sum((ak- Ak)^2)
sb = sum((bk- Bk)^2)
rk = sum((ak- Ak) * (bk-Bk))/sqrt(sa * sb)
print(rk)
m =-1/(n - k - 1)
disp = (n- k- 2)/((n -k- 1)^2)
stand = (rk - m)/sqrt(disp)
c = qnorm(p = (1- (alfa/2)))
print("standardizovana vrednost test statistike je : ")
print(stand)
cat((1- alfa) * 100,"%-tni interaval poverenja za standstat je (",-c, ", ", c, ")")
}

testzaokreta<-function(x,alfa)
{
n=length(x)
s=0
for(i in 1:(n-2))
{
a=(x[i+1]-x[i])*(x[i+2]-x[i+1])
if (a<0) s=s+1
}

m=(2*(n-2))/3
dz=(16*n-29)/90
cat("srednja vrednost :",m," uzoracka disperzija: ", dz, "\n")
print("vrednost test statistike je:")
print(s)
print(" standardizovana vrednost test statistike je:")
print((s-m)/sqrt(dz))
c=qnorm(p=(1-(alfa/2)))
cat((1-alfa)*100," %-tni interaval poverenja za stand stat je (",-c," ,", c,")" )
}



testrasta<-function(x,alfa)
{
n=length(x)
s=0
```

```
for(i in 1:(n-1))
{
a=(x[i+1]-x[i])
if (a>0) s=s+1
}

m=(n-1)/2
dz=(n+1)/12
cat("srednja vrednost :",m," uzoracka disperzija: ", dz, "\n")
print("vrednost test statistike je:")
print(s)
print(" standardizovana vrednost test statistike je:")
print((s-m)/sqrt(dz))
c=qnorm(p=(1-(alfa/2)))
cat((1-alfa)*100," %-tni interaval poverenja za stand stat je (",-c," ,", c,")" )
}



testBartels<-function(x,alfa)
{
n=length(x)
R=rank(x)
s=0
for(i in 1:(n-1))
{
s=s+(R[i+1]-R[i])^2

}
bn=(s*12)/(n*(n^2-1))
print("vrednost test statistike je:")
print(bn)

m=2
dbn=4/n
cat("srednja vrednost :",m,"  disperzija: ", dbn, "\n")
print(" standardizovana vrednost test statistike je:")
print((bn-m)/sqrt(dbn))
c=qnorm(p=(1-(alfa/2)))
cat((1-alfa)*100," %-tni interaval poverenja za stand stat je (",-c," ,", c,")" )}

testrazlikarangova<-function(x,alfa)

{
n=length(x)
```

```
R=rank(x)
s=0
for(i in 1:(n-1))
{
s=s+abs(R[i+1]-R[i])

}

print("vrednost test statistike je:")
print(s)

m=((n-1)*(n+1))/3
ds=((n-2)*(n+1)*(4*n-7))/90

cat("srednja vrednost :",m,"  disperzija: ", ds, "\n")

print(" standardizovana vrednost test statistike je:")
print((s-m)/sqrt(ds))
c=qnorm(p=(1-(alfa/2)))
cat((1-alfa)*100," %-tni interaval poverenja za stand stat je (",-c," ,", c,")" )

}
```