Package 'CATT'

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Type Package
Title The Cochran-Armitage Trend Test
Version 2.0
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Description This function conducts the Cochran-Armitage trend test to a 2 by k contingency table. It will report the test statistic (Z) and p-value. A linear trend in the frequencies will be calculated, because the weights $(0,1,2)$ will be used by default.
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CATT The Cochran-Armitage Trend Test

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Description

weights (0,1,2) will be used by default.

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Usage

```
CATT(binomial, ordinal, table)
```

Arguments

ordinal the vector of the ordinal variable binomial the vector of the binomial variable

table option, the contingency table of table(binomial,ordinal)

Value

Z the test statistic

p. value the p value of the hypothesis test

Note

Please feel free to contact us, if you have any advice and find any bug!

Reference:

- 1. Cochran, WG (1954). Some methods for strengthening the common chi-squared tests. Biometrics. International Biometric Society. 10 (4): 417-451.
- 2. Armitage, P (1955). Tests for Linear Trends in Proportions and Frequencies. Biometrics. International Biometric Society. 11 (3): 375-386.

Update:

Version 0.2.0: The p value of two side was specified.

Author(s)

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Examples

```
# type of data is variable
binomial=c(rep(0,20),rep(1,10),rep(0,20),rep(1,20),rep(0,20),rep(1,30))
ordinal=c(rep(0,30),rep(1,40),rep(2,50))
CATT(binomial=binomial,ordinal=ordinal)

# type of data is table
tbl=matrix(c(20,10,20,20,20,30),nrow=2)
CATT(table=tbl)
```

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*Topic Cochran-Armitage; Trend Test CATT, 1
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