This is for euro

```
Debug - bash - 137×36
Trinomial Price of an European Put Option = 0.862011 Put Price according to Black-Scholes = 0.862071
Verifying Put-Call Parity: S+P-C = Kexp(-r*T) 60 + 0.862011 - 12.8225 = 50exp(-0.08 * 0.5)
48.0395 = 48.0395
wirelessprvnat-172-17-191-135:Debug shengdongliu$ time ./end-term\ ie523 0.5 5000 0.08 0.3 60 50 Recursive Binomial European Option Pricing
Expiration Time (Years) = 0.5
Number of Divisions = 5000
Risk Free Interest Rate = 0.08
Volatility (%age of stock value) = 30
Initial Stock Price = 60
Strike Price = 50
Up Factor = 1.00425
Uptick Probability = 0.250413
Downtick Probability = 0.249588 notick Probability = 0.5
Trinomial Price of an European Call Option = 12.8225
Call Price according to Black-Scholes = 12.8226
Trinomial Price of an European Put Option = 0.862011
Put Price according to Black-Scholes = 0.862071
Verifying Put-Call Parity: S+P-C = Kexp(-r*T)
60 + 0.862011 - 12.8225 = 50exp(-0.08 * 0.5)
48.0395 = 48.0395
real
          0m1.994s
          0m1.812s
user
          0m0.176s
wirelessprvnat-172-17-191-135:Debug shengdongliu$
```

this is for ameri

```
wirelessprvnat-172-17-191-135:Debug shengdongliu$ time ./endterm_for_a_mem 0.5 5000 0.08 0.3 60 50
Recursive Binomial European Option Pricing
Expiration Time (Years) = 0.5
Number of Divisions = 5000
Risk Free Interest Rate = 0.08
Volatility (%age of stock value) = 30
Initial Stock Price = 60
Strike Price = 50
Up Factor = 1.00425
Uptick Probability = 0.250413
Downtick Probability = 0.249588
notick Probability = 0.5
Trinomial Price of an European Call Option = 12.8225
Trinomial Price of an European Put Option = 0.896696
Verifying Put-Call Parity: S+P-C = Kexp(-r*T)
60 + 0.896696 - 12.8225 = 50exp(-0.08 * 0.5)
48.0742 ?=? 48.0395
Looks like Put-Call Parity Does Not Hold
real
        0m2.477s
        0m2.288s
user
        0m0.187s
SYS
wirelessprvnat-172-17-191-135:Debug shengdongliu$
```