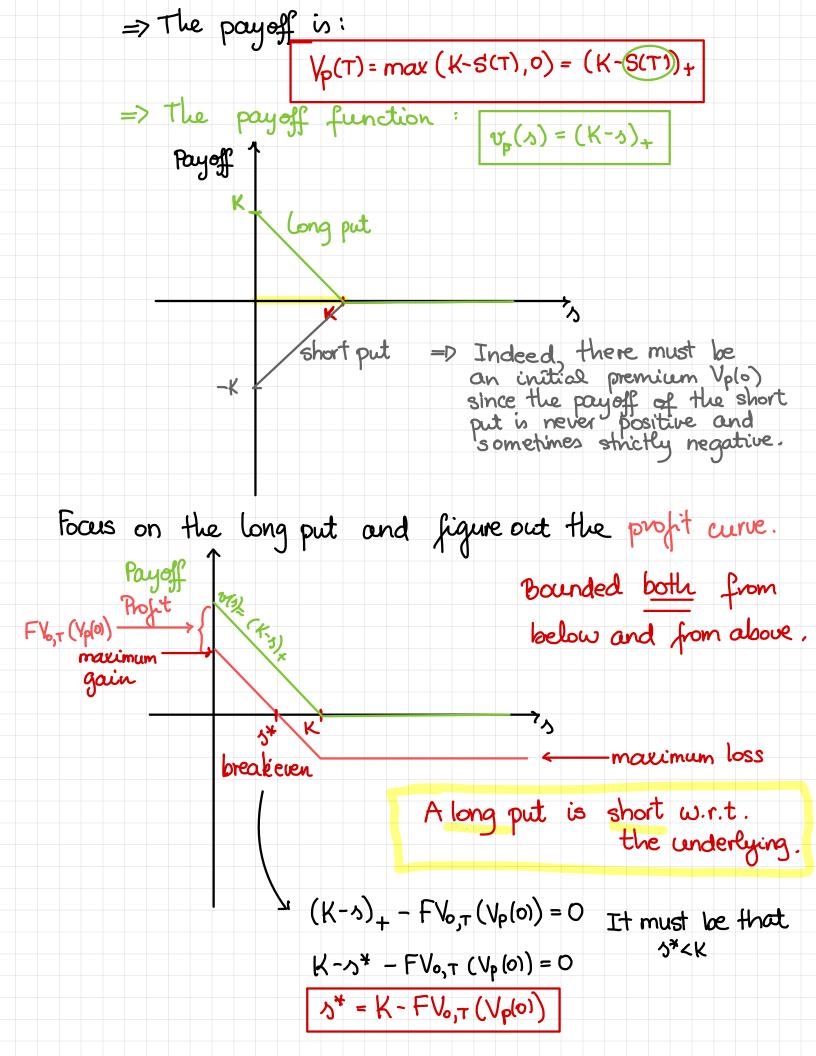


```
European Put Option.
           Usually, a RIGHT to SELL]
         Option written EXERCISE DATE
At time · O: The writer and the buyer of the put agree on:
         • the underlying asset: S(t), t \ge 0
         · the exercise date T
         · the strike/exercise price K
     The put premium Vp(0) is paid by the buyer of
     the put and received by the writer of the put.
At time. T: The put's owner has the right, but NOT
           an obligation to SELL one unit of the
           underlying for the strike price K
          The put's writer is obligated to do what
          the put's owner decides.
 Q: What is the put's owner's optimal behavior @
    time. T, i.e., what is the condition for exercise?
     ---: The condition is K>SCT); then
                   LONG PUT (owner of put)
                1 unit | 1 strike price K
                   SHORT PUT (writer of put)
      = The payoff is: Vp(T) = { K-S(T)
                                             片 K>S(T)
                                             of KESCT)
```



Tanker transporting crude oil from Port A to Port B.
 You can buy and write options on oil @ both ports.
 What do you do?
 Port A Port B

Long CALL Long PUT
Long Forward Short Forward