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## mc\_longstaffschwartz2d

### Input parameters:

- Number of iterations  $N$
- Generator\_Type
- Increment  $inc$
- Regressor Basis  $basis$
- Dimension Approximation  $dimapprox$
- Number of Exercise Date  $exercise\_date\_number$

### Output parameters:

- Price  $P$
- Delta1  $\delta$
- Delta2  $\Delta$

### Description:

Computation of Bermudian Option Price with the Longstaff-Schwartz algorithm that gives an estimation of an optimal stopping time using regression method. [1]. [Longstaff-Schwartz Method](#)

### References

- [1] F.A.LONGSTAFF E.S.SCHWARTZ. Valuing american options by simulations:a simple least-squares approach. *Working Paper Anderson Graduate School of Management University of California*, 25, 1998. 1