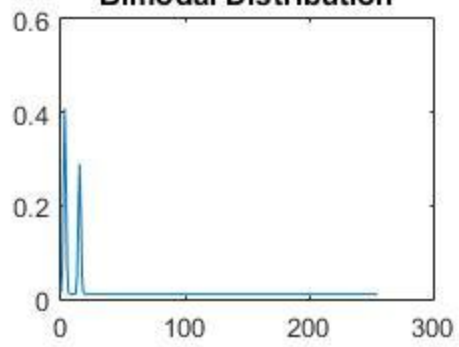**original Image**

Equalization

Bimodal Distribution

Output