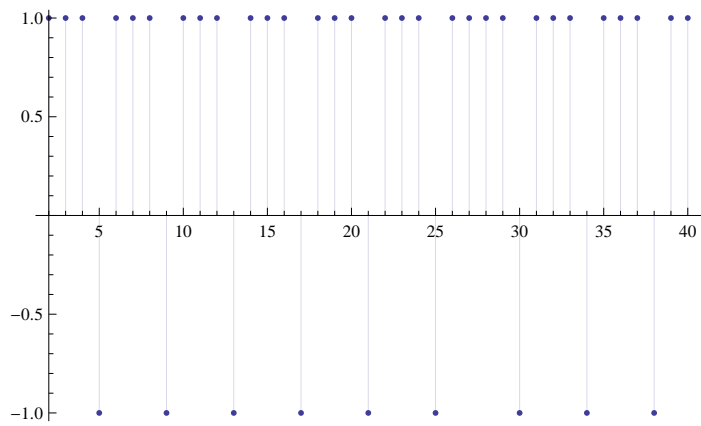


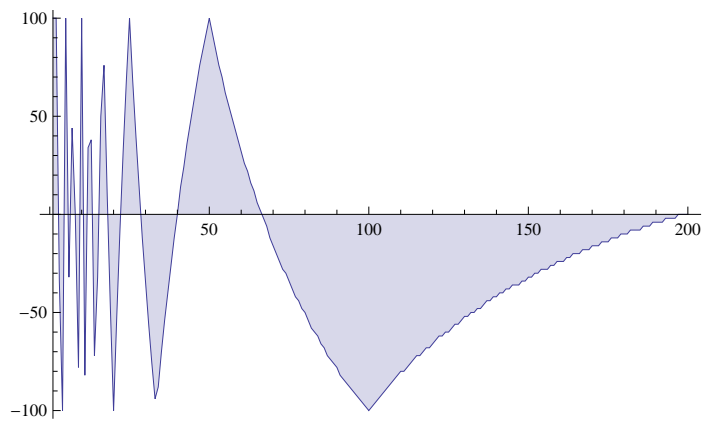
```
t[n_, a_] := (-1) ^ (Floor[n / a] - Floor[(n - 1) / a])
```

```
ST[n_, a_] := Sum[ t[j, a], {j, 1, n}]
```

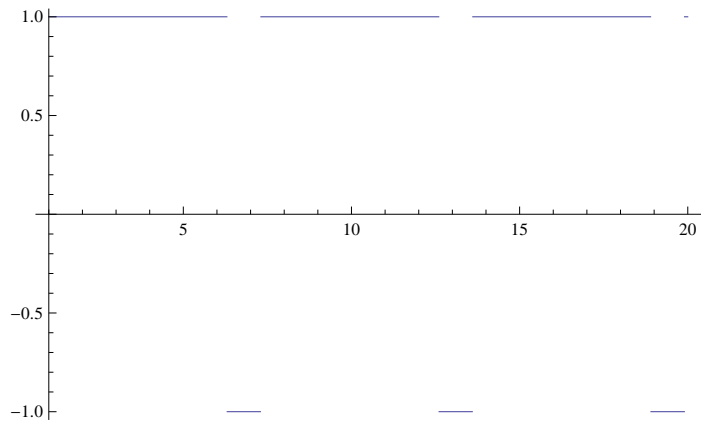
```
DiscretePlot[ t[n, 25 / 6], {n, 2, 40}]
```



```
DiscretePlot[ ST[100, n / 100], {n, 1, 200}]
```



```
Plot[ t[n, 6.3], {n, 1, 20}]
```



```
pr[n_, va_] := Sum[ 2 ^ k / k, {k, 1, Log[va, n]}]
```