$$B_{(k+1)\Delta}=B_0+\sum_{i=0}^k arepsilon_{(i+1)\Delta}$$
 , где $arepsilon_{(i+1)\Delta}\sim Nig(0,\Deltaig)$

$$M\left[B_{(k+1)\Delta}\right] = M\left[B_0 + \sum_{i=0}^{k} \varepsilon_{(i+1)\Delta}\right] = M\left[B_0\right] + \sum_{i=0}^{k} M\left[\varepsilon_{(i+1)\Delta}\right]$$

Так как $B_0 = 0 \implies M \left[B_{(k+1)\Delta} \right] = \sum_{i=0}^k M \left[\varepsilon_{(i+1)\Delta} \right]$, где $\varepsilon_{(i+1)\Delta}$ нормальные величины с нулевым средним

Таким образом $M \left\lceil B_{(k+1)\Delta} \right\rceil = 0$

$$M\left[B^{2}_{(k+1)\Delta}\right] = M\left(\sum_{i=0}^{k} \varepsilon_{(i+1)\Delta}\right)^{2} = M\left(\sum_{i=0}^{k} \varepsilon^{2}_{(i+1)\Delta} + \sum_{i\neq i=0}^{k} \varepsilon_{(i+1)\Delta}\varepsilon_{(i+1)\Delta}\right) = M\left(\sum_{i=0}^{k} \varepsilon^{2}_{(i+1)\Delta}\right) = \sum_{i=0}^{k} M \varepsilon^{2}_{(i+1)\Delta} = \Delta \sum_{i=0}^{k} 1 = \Delta k$$

$$M\left[B_{k\Delta}B_{l\Delta}\right] = M\left(\sum_{i=1}^{k} \varepsilon_{i\Delta}\sum_{j=1}^{l} \varepsilon_{j\Delta}\right) = M\left(\sum_{i=1}^{\min(k,l)} \varepsilon_{i\Delta}^{2} + \sum_{j\neq i=1}^{\min(k,l)} \varepsilon_{i\Delta}\varepsilon_{j\Delta} + \sum_{i=\min(k,l)+1}^{\max(k,l)} \varepsilon_{i\Delta}\sum_{j=1}^{\min(k,l)} \varepsilon_{j\Delta}\right) = M\left(\sum_{i=1}^{\min(k,l)} \varepsilon_{i\Delta}^{2}\right) + 0 + 0 = \sum_{i=1}^{\min(k,l)} M \varepsilon_{i\Delta}^{2} = 0$$

$$=\Delta\sum_{i=1}^{\min(k,l)}1=\Delta\min(k,l)$$