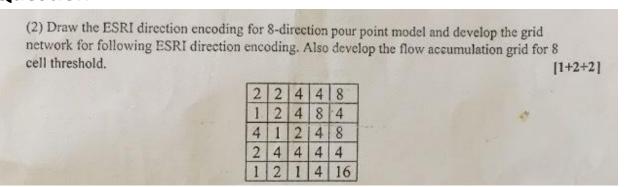
Question



Solution:

a. First we draw the flow directions from the above direction encoding based upon the ESRI direction encoding as shown below:

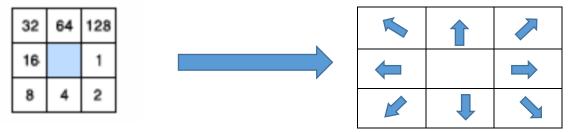


Figure 1: Flow Direction Encoding

Figure 2: Flow Direction

b. Based upon the aforementioned encoding, the directions of the flow is shown below:

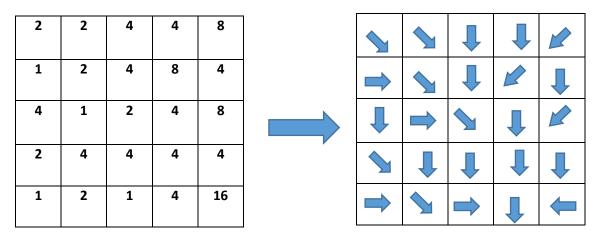


Figure 3: Flow Direction Encoding

Figure 4: Flow Direction

c. Now we compute the flow accumulation based upon the flow directions:

(Flow accumulation in each sum total of arrow accounts pouring into that particular cell. It is a better idea to start with the corners where the flow accumulation is zero. Then progress towards interior cells.

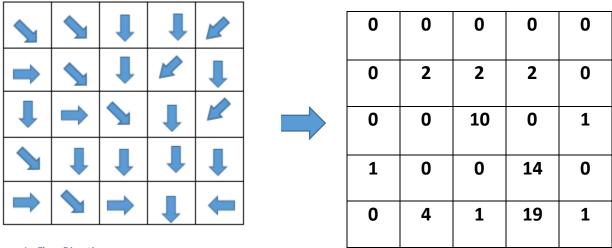


Figure 1 : Flow Direction

Figure 2: Flow Accumulation