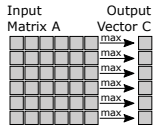


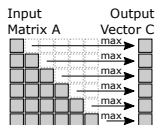
### A. Full matrix

```
for (i=0; i<N; i++){  
  C[i]=A[i][0];  
  for (j=1; j<N; j++){  
    C[i] = max(C[i],A[i][j]);  
  }  
}
```



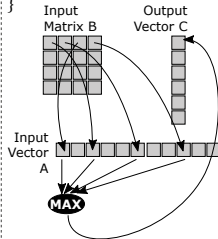
### B. Lower triangular

```
for (i=0; i<N; i++){  
  C[i]=A[i][0];  
  for (j=1; j<i+1; j++){  
    C[i] = max(C[i],A[i][j]);  
  }  
}
```



### C. Indirect pattern

```
for (i=0; i<N; i++){  
  C[i]=A[B[i][0]];  
  for (j=1; j<N; j++){  
    C[i] = max(C[i],A[B[i][j]]);  
  }  
}
```



### D. UVE implementation (all cases)

u0 «« input stream A  
u1 »» output stream C

```
kernel:  config input stream :: u0 «« A[...]  
         config output stream :: u1 »» C[...]  
.next_line: ; load first block of data  
            vectormove          u5,u0  
            ; go to hmax if line has no more elements  
            b.dim0_complete     u0,.hmax  
            ; else sweep through the whole line  
.loop:    vectormax             u5,u5,u0  
            b.dim0_not_complete u0,.loop  
            ; compute max across vector elements  
.hmax:    horizontal_max       u1,u5  
            ; loop until end of stream/matrix  
            b.not_complete     u0,.next_line
```