```
void evaluate(float*capacity,
2
                         float*bandwith,
3
                         float * weight,
                         int chromsome[][],
4
5
                         int paths[][]
6
                         int &objective[]){
7
8
   __shared__ float flow [E] = {};
9
   __shared__ float shared[E]={};
10
   for(i=threadid;i<|D|;i+=blockDim){</pre>
11
            int p[]=paths[i][chromsome[blockid][i]];
12
            for (j=0, j < length_of(p); j++)
13
14
                      int band=bandwidth[blockid];
15
                     atomicAdd(&flow[p[j]],band);
16
                     }
17
18
   __syncthreads();
   for(i=threadid;i<E;i+=blockDim)</pre>
19
20
21
            if(flow[i] < capacity[i])</pre>
                     shared[i]=flow[i]*weight[i];
22
23
            else
24
                     shared[i]=INF;
25
26
   __syncthread();
27
   for(int s=E; s>1; s=(s+1)/2)
28
            if(e < s/2)
29
                      shared [e] += shared [e+(s+1)/2];
30
            __syncthreads();
31
32
   if(threadid==0)
33
            objective[blockid]=shared[0];
34
   }
```