ΕΡΓΑΣΙΑ 2

conditions: go blue, go red

global μεταβλητες: inRed (inBridgeRed), inBlue (inBridgeBlue), passed (passedCars), change (changePriority), wRed (waitingRed), wBlue (waitingBlue)

```
Entrer bridge:
                                                 Exit bridge:
mutex lock
                                                 mutex lock
if(inRed>0 || inBlue==capacity || passed==change){
                                                 inBlue--;
                                                 if(wBlue>0 && inBlue<capacity &&
  wBlue++;
  cond wait(go blue);
                                                   (passed<change || wRed==0){
                                                    wBlue--;
  passed++;
  if(wBlue>0 && inBlue<capacity && passed<change){
                                                    inBlue++;
                                                    cond signal(go blue);
    wBlue--;
    inBlue++;
    cond signal(go blue);
                                                 else if(wRed>0 && inBlue==0){
                                                    wRed--;
                                                    inRed++;
else{
                                                    passed++;
  inBlue++;
                                                    cond_signal(go_red);
  passed++;
  if(wBlue>0 && inBlue<capacity){
                                                 else if(wRed==0 && wBlue==0){
                                                   passed==0;
    wBlue--;
    inBlue++;
    cond_signal(go_blue);
                                                 mutex_unlock
mutex unlock
```