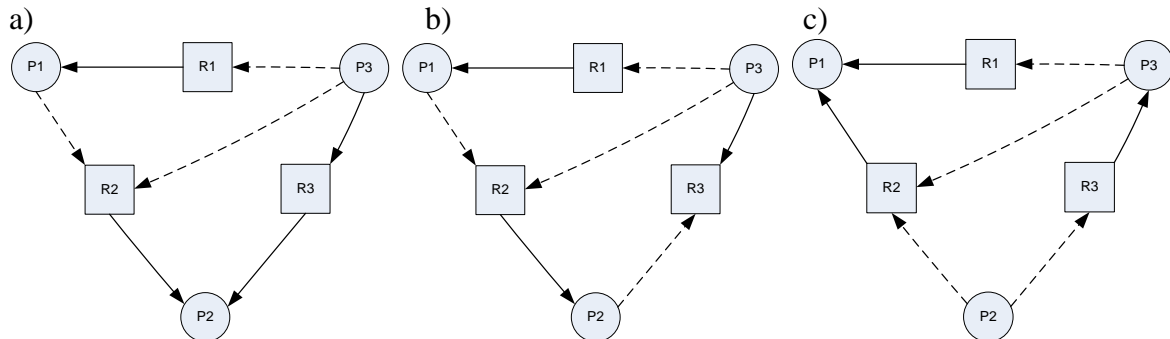# Rešenja drugog kolokvijuma iz Operativnih sistema 2
Novembar 2011.

1. (10 poena)

a)

b)

c)

2. (10 poena)

```
unsigned int getVictimPage (PCB* pcb) {
  static const unsigned long mask = ~(~0UL>>1); // 100...0b
  if (pcb==0) return -1; // Exception!
  while (pcb->pmt[pcb->clockHand] & mask) {
    pcb->pmt[pcb->clockHand] &= ~mask;
    pcb->clockHand = pcb->pagefifo[pcb->clockHand];
  }
  unsigned int victim = pcb->clockHand;
  pcb->clockHand = pcb->pagefifo[pcb->clockHand];
  return victim;
}
```

3. (10 poena)

```
X* Cache::alloc() {
  Slab* s=this->headSlab;
  for (; s!=0; s=s->nextSlab)  // Find a slab with a free slot
    if (s->freeSlot) break;
  if (s==0) // No free slot. Allocate a new slab:
    s = new Slab(this);
  if (s==0 || s->freeSlot==0) return 0; // Exception: no free memory
  X* ret = s->freeSlot;
  s->freeSlot=*(X**)s->freeSlot;
  return ret;
}
```