

Rešenja drugog kolokvijuma iz Operativnih sistema 2, decembar 2015.

1. (10 poena)

```
int ResourceAllocator::release (int p, int r) {
    if (p<0 || p>=np || r<0 || r>=nr) return -1; // Exception
    if (alloc[p][r]!=acquired) return -2; // Resource not used by this process
    alloc[p][r] = announced; // Restore the announcement edge
    for (int i=0; i<nr; i++){ // See if other processes can now get resources
        deblock[i]=0;
        for (int j=0; j<nr; j++)
            if ((alloc[i][j]==requested) && (request(i,j)==1))
                deblock[i]=1;
    }
    return 1;
}
```

2. (10 poena)

```
unsigned int getVictimPage (PCB* pcb) {
    if (pcb==0) return; // Exception!
    while (1) {
        if (pcb->pageCounters[pcb->clockHand]==0) return pcb->clockHand;
        pcb->pageCounters[pcb->clockHand]--;
        pcb->clockHand = pcb->pageFifo[pcb->clockHand];
    }
}
```

3. (10 poena)

a)(5)

<i>n</i>	<i>Početne adrese (hex) slobodnih blokova veličine 2ⁿ</i>
4	-
3	-
2	A C0 00
1	A A0 00
0	-

b)(5)

<i>n</i>	<i>Početne adrese (hex) slobodnih blokova veličine 2ⁿ</i>
4	-
3	A 00 00
2	A C0 00
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