

1. a) New inode used at I[2]  
b) inode\_bm[2] set to 1  
c) data\_bm[4] set to 0  
d) Inode I[1] modified  
e) DB[4] modified  
f) inode\_bm[1] set to 0  
g) New data block at DB[0]  
h) data\_bm[0] set to 1

Answer: a) , b) , d) , e)

2. a) New inode used at I[2]  
b) inode\_bm[2] set to 1  
c) data\_bm[4] set to 0  
d) Inode I[3] modified  
e) D[4] modified  
f) inode\_bm[3] set to 0  
g) New data block at DB[3]  
h) data\_bm[3] set to 1

Answer: d) , g) , h)

3. a) No inconsistency (it simply appears that the operation was not performed)  
b) Data leak (data block is lost for any future use)  
c) Inode leak (Inode is lost for any future use)  
d) Multiple file paths may point to same inode  
e) Something points to garbage  
f) Multiple inodes may point to same data block  
g) Multiple of the problems listed above

Answer: a)

4. a) No inconsistency (it simply appears that the operation was not performed)  
b) Data leak (data block is lost for any future use)  
c) Inode leak (Inode is lost for any future use)  
d) Multiple file paths may point to same inode  
e) Something points to garbage

f) Multiple inodes may point to same data block

Answer: d) , e)

5. a) No inconsistency (it simply appears that the operation was not performed)  
b) Data leak (data block is lost for any future use)  
c) Inode leak (Inode is lost for any future use)  
d) Multiple file paths may point to same inode  
e) Something points to garbage (or may eventually point to garbage)  
f) Multiple inodes may eventually point to same data block

Answer: b)

6. a) No inconsistency (it simply appears that the operation was not performed)  
b) Data leak (data block is lost for any future use)  
c) Inode leak (Inode is lost for any future use)  
d) Multiple file paths may point to same inode  
e) Something points to garbage (or may eventually point to garbage)  
f) Multiple inodes may eventually point to same data block

Answer: e)

7. a) No inconsistency (it simply appears that the operation was not performed)  
b) Data leak (data block is lost for any future use)  
c) Inode leak (Inode is lost for any future use)  
d) Multiple file paths may point to same inode  
e) Something points to garbage (or may eventually point to garbage)  
f) Multiple inodes may eventually point to same data block

Answer: d) , e)

8. a) No inconsistency (it simply appears that the operation was not performed)  
b) Data leak (data block is lost for any future use)  
c) Inode leak (Inode is lost for any future use)  
d) Multiple file paths may point to same inode  
e) Something points to garbage  
f) Multiple inodes may point to same data block

Answer: b)

Yaay!! They are all correct XD