(a) The set S of all paper in a recycle firm is equal to $S_1 \cup S_2 \cup S_3 \ldots \cup S_7$, where S_1 is paper of type P_{11}, S_2 is paper of type P_{12}, S_3 is paper of type P_{13}, S_4 is paper of type P_{21}, S_5 is paper of type P_{22}, S_6 is paper of type P_{31}, S_7 is paper of type P_{32}.

(b) In warehouse 1 stored paper $S_1 \cup S_2 \cup S_7$.