write - up

- 1 Red-Black Trues Inscrition
- Pseudocade/Algorida

Let it be the newly inverted node

- (1) Perform standard BST insulion and make its colour av sed
- (2) 96 x is most change colour of x as Black.
 (Black Height increases by 1)
- (3) Do the following if x's parent is not Black a x is not the rest.
 - (a) If x's uncle is Red (Igranaparent must have been black)
 - (i) change the colour of parent & uncle as Black
 - (11) Rolows of a grandparent as Red.
 - (iii) change x = x's grandparent, repeat 283 for new x.
 - (b) Il x's uncle is Black
 - (i) left-left case (p is left coiled of g & x is left child of p)

(I)

Write- Up

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- (ii) left-Right case (p is left child of g 8 \times is the right child of p)
- (111) Right-Right case (Nievror of case 1)
- (iv) Right Left Case (Mirrion of case ii)

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