1.

The value of i is: 7

This is because the program is a loop that iterates through an array until it reaches a non zero value which is at the seventh element or value 6. The index s3 is printed out for its value. Also, t8 points to the address of each index based on the .align 2= 4bytes

2.

e. jyix  
The answer is e because we want the program to traverse column wise, so pick one column and traverse down row by row. We see that i,x,and j are variables that are used to traverse column wise. So to have the worst performance we want i,x, and j in the most inner loops. Since i is responsible for two column wise traversals we prefer to have i in the most inner loop before j.