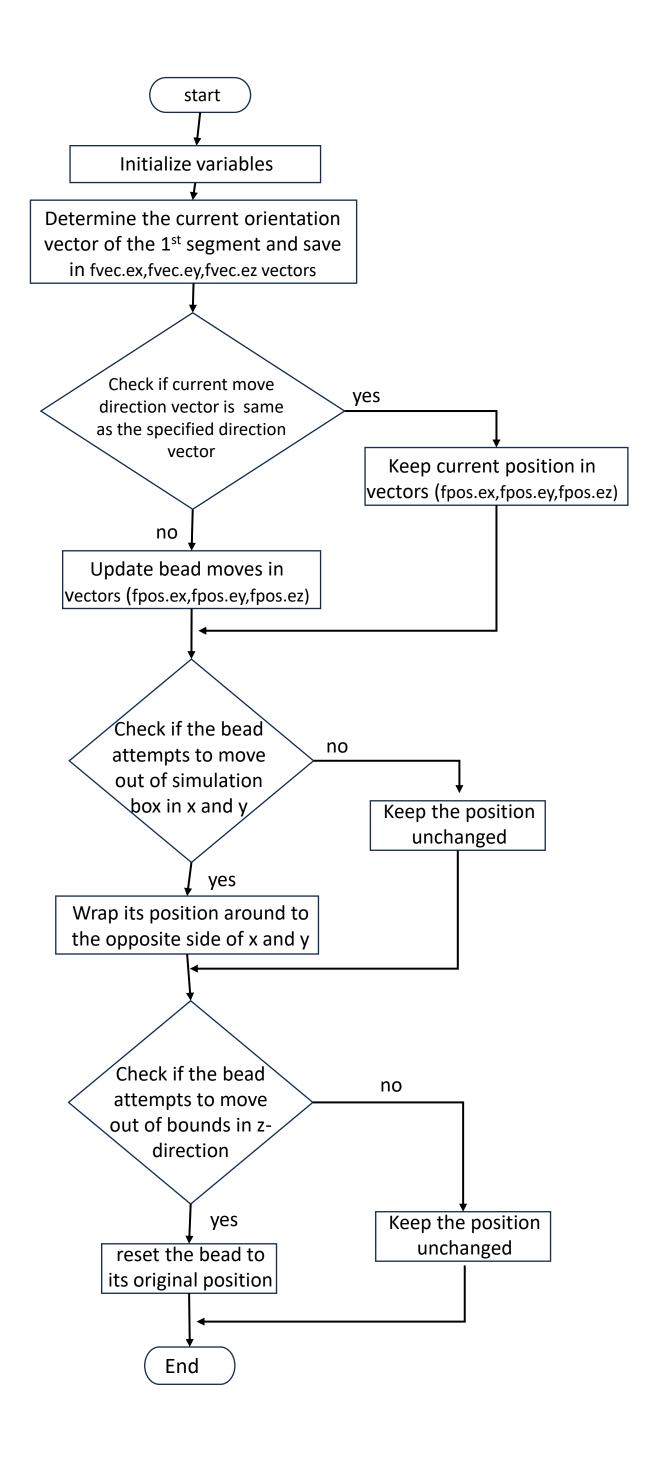
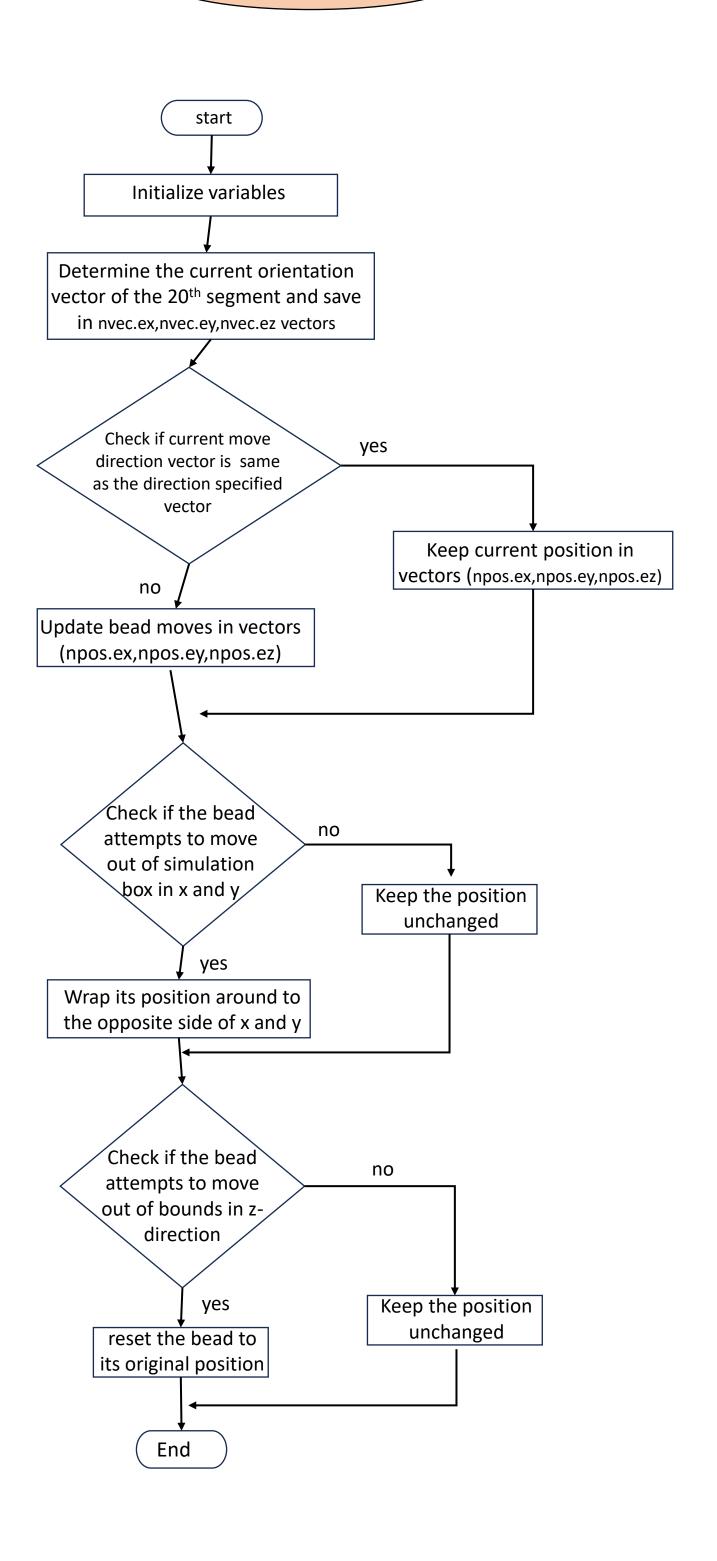


## fmoves(int cnum,int r)

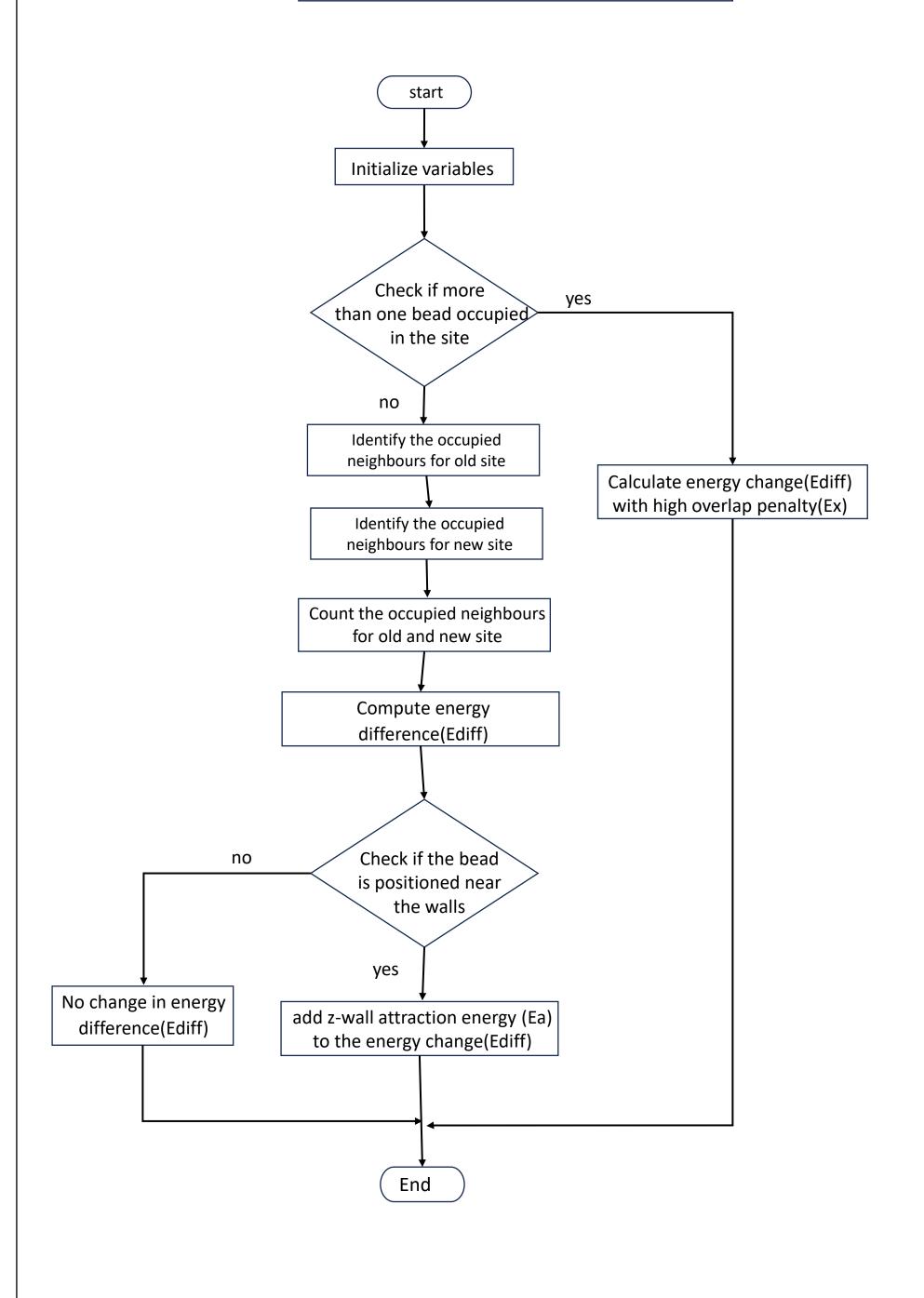


### nmoves(int cnum,int r)

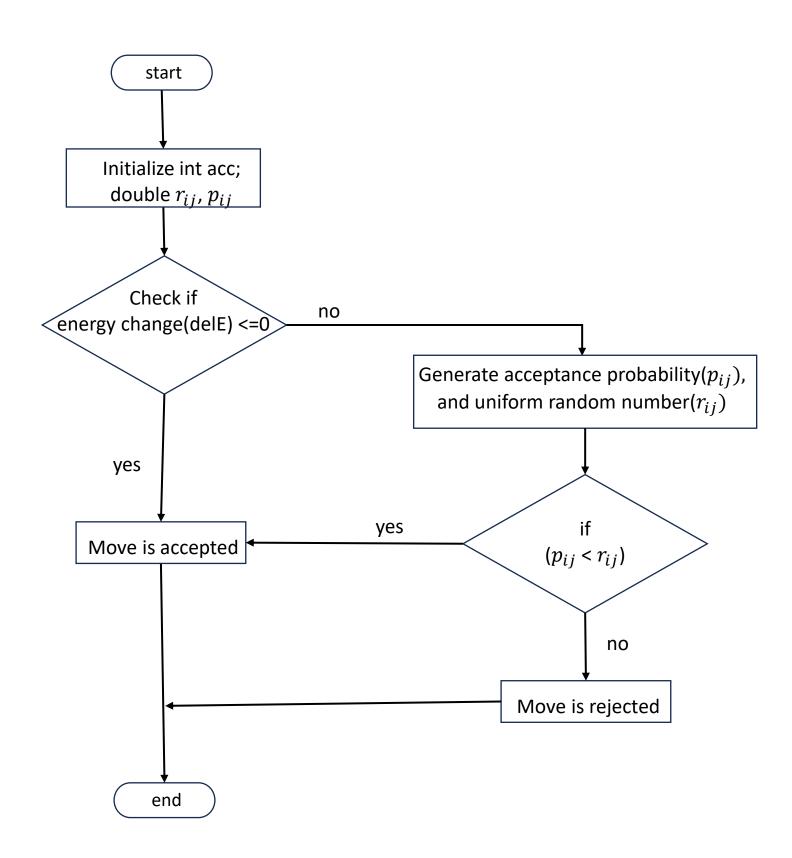


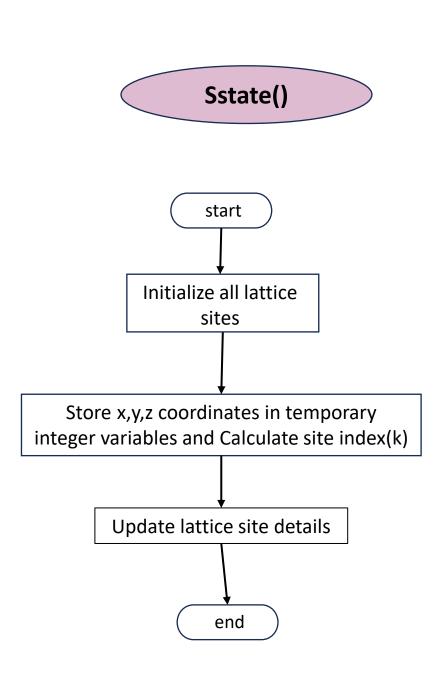
# kmoves(int cnum,int k) start Initialize variables Determine the current orientation vector of the $k^{\text{th}}$ segment and save in vec1.ex,vec1.ey,vec1.ez Determine the current orientation vector of the k-1<sup>th</sup> segment and save in vec2.ex,vec2.ey,vec2.ez Compute the dot product between two vectors(vec1,vec2) Check for a kink move no (dot product = 0) yes Keep current position in kpos.ex,kpos.ey,kpos.ez Update bead moves in kpos.ex,kpos.ey,kpos.ez Check if the bead no attempts to move out of simulation box in x and y Keep the position unchanged yes Wrap its position around to the opposite side of x and y Check if the bead no attempts to move out of bounds in zdirection yes Keep the position unchanged reset the bead to its original position End

### deltaE(int olds,int news,int z\_coordinate)

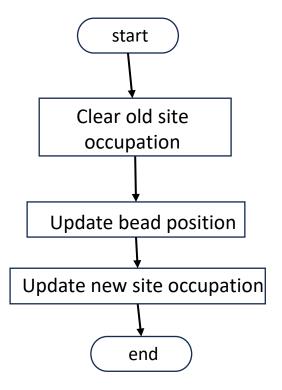


# metrop(double delE)

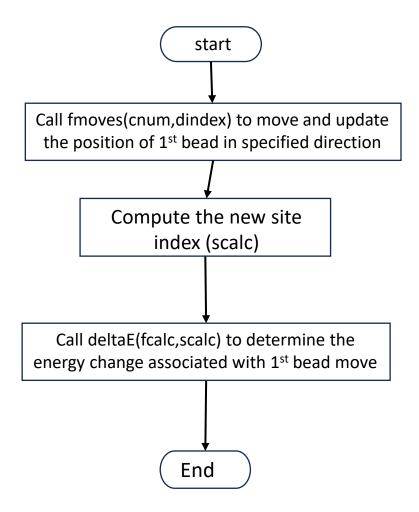




### accmov(int cnum,int bnum,int pcalc,int scalc,struct vec mpos)



### fmeval(int cnum,int dindex,int fcalc)



### lmeval(int cnum,int dindex,int lcalc)

