## Pseudo Code

- 1) Initialize T for Test cases,
- 2) Initialize t, a1, b1, c1 three arrays
- 3) Perform a loop and and put the 3 values in a1, b1, c1,
- 4) Initialize flag with 0,
- 5) Perform a loop iterate from j =1 to j =3 and applying check condition,
- 6) if (j == 1), then perform a nesting of loop inside above one which iterate from k = 2 to k = 3 and Initialize flag1 with 0 and flag2 with 0
- 7) And then check a1[j] < a1[k], then increment the flag1,
- 8) And if a1[j]>a1[k], then increment the flag2,
- 9) And if(a1[j]<b[k]), then increment the flag1, and so on
- 10) if(j==2) then perform a nesting of loop inside above one which iterate from k = 2 to k=3 and Initialize flag1 with 0 and flag2 with 0
- 11) And then check a1[j] < a1[k], then increment the flag1,
- 12) And if a1[j]>a1[k], then increment the flag2,
- 13) And if(a1[i]<b[k]), then increment the flag1, and so on
- 14) if(j==2) then perform a nesting of loop inside above one which iterate from k =2 to k=3 and Initialize flag1 with 0 and flag2 with 0
- 15) And then check a1[j] < a1[k], then increment the flag1,
- 16) And if a1[j]>a1[k], then increment the flag2,
- 17) And if(a1[i]<b[k]), then increment the flag1, and so on
- 18) if(flag ==1), and inside if(j==1), then Initialize flag1 with 0 and flag2 with 0
- 19) And then check a1[2] < a1[3], then increment the flag1,
- 20) And if a1[2]>a1[3], then increment the flag2,
- 21) And if(a1[2]<b[3]), then increment the flag1, and so on
- 22) And so on.

## Implementation

```
#include <stdio.h>
int main()
{
    long int t,i,a[5],b[5],c[5],j,flag1,flag,flag2;
    long int k;
    scanf("%ld",&t);
    for(i=1;i<=t;++i)
    {
        for(j=1;j<=3;++j)
        {
            scanf("%ld%ld%ld",&a[j],&b[j],&c[j]);
        }
        flag=0;</pre>
```

```
for(j=1;j<=3;++j)
  if(j==1)
  {
     for(k=2;k<=3;++k)
        flag1=0;
        flag2=0;
        if(a[j] < a[k])
          flag1+=1;
        if(a[j]>a[k])
          flag2+=1;
        if(b[j]{<}b[k])\\
          flag1+=1;
        if(b[j]>b[k])
          flag2+=1;
        if(c[j] {<} c[k]) \\
          flag1+=1;
        if(c[j]>c[k])
          flag2+=1;
        if(flag1==0 && flag2>0 && k==2)
          continue;
        if(!(flag1==0 && flag2>0) && k==2)
        {
          break;
        if(flag1==0 && flag2>0 && k==3)
          flag=1;
          break;
```

```
if(!(flag1==0 && flag2>0) && k==3)
     {
        break;
  if(flag==1)
     break;
if(j==2)
  for(k=1;k<=3;k=k+2)
     flag1=0;
     flag2=0;
     if(a[j] < a[k])
        flag1+=1;
     if(a[j]>a[k])
        flag2+=1;
     if(b[j]{<}b[k])\\
        flag1+=1;
     if(b[j]>b[k])
       flag2+=1;
     if(c[j] {<} c[k]) \\
        flag1+=1;
     if(c[j]>c[k])
       flag2+=1;
     if(flag1==0 && flag2>0 && k==1)
        continue;
```

```
if(!(flag1==0 && flag2>0) && k==1)
     {
        break;
     if(flag1==0 && flag2>0 && k==3)
        flag=1;
        break;
     if(!(flag1==0 && flag2>0) && k==3)
        break;
  if(flag==1)
     break;
if(j==3)
  for(k=1;k<=2;++k)
     flag1=0;
     flag2=0;
     if(a[j] < a[k])
        flag1+=1;
     if(a[j]>a[k])
        flag2+=1;
     if(b[j] < b[k])
       flag1+=1;
     if(b[j]>b[k])
       flag2+=1;
     if(c[j] {<} c[k]) \\
```

```
flag1+=1;
       }
       if(c[j]>c[k])
          flag2+=1;
       if(flag1==0 && flag2>0 && k==1)
          continue;
       if(!(flag1==0 && flag2>0) && k==1)
          break;
       if(flag1==0 && flag2>0 && k==2)
          flag=1;
          break;
       if(!(flag1==0 && flag2>0) && k==2)
          break;
       }
     if(flag==1)
       break;
if(flag==1)
  if(j==1)
     flag1=0;
     flag2=0;
     if(a[2] < a[3])
       flag1+=1;
     if(a[2]>a[3])
       flag2+=1;
```

```
if(b[2] < b[3])
  flag1+=1;
if(b[2]>b[3])
  flag2+=1;
if(c[2]<c[3])
  flag1+=1;
if(c[2]>c[3])
  flag2+=1;
if(flag1==0 && flag2>0)
  printf("yes\n");
  continue;
else
  flag1=flag2=0;
  if(a[3] < a[2])
     flag1+=1;
  if(a[3]>a[2])
     flag2+=1;
  if(b[3]<b[2])
     flag1+=1;
  if(b[3]>b[2])
     flag2+=1;
  \mathsf{if}(\mathsf{c}[3] \mathord{<} \mathsf{c}[2])
     flag1+=1;
   }
```

```
if(c[3]>c[2])
       flag2+=1;
     if(flag1==0 && flag2>0)
       printf("yes\n");
        continue;
     }
     else
     {
        printf("no\n");
  }
if(j==2)
  flag1=0;
  flag2=0;
  if(a[1] < a[3])
     flag1+=1;
  if(a[1]>a[3])
     flag2+=1;
  if(b[1] < b[3])
     flag1+=1;
  if(b[1]>b[3])
     flag2+=1;
  if(c[1]<c[3])
     flag1+=1;
  if(c[1]>c[3])
     flag2+=1;
  if(flag1==0 && flag2>0)
```

```
printf("yes\n");
     continue;
  }
  else
     flag1=flag2=0;
     if(a[3] < a[1])
       flag1+=1;
     if(a[3]>a[1])
       flag2+=1;
     if(b[3]<b[1])
       flag1+=1;
     if(b[3]>b[1])
       flag2+=1;
     if(c[3]< c[1])
       flag1+=1;
     if(c[3]>c[1])
       flag2+=1;
     if(flag1==0 && flag2>0)
        printf("yes\n");
        continue;
     }
     else
     {
       printf("no\n");
  }
if(j==3)
```

```
flag1=0;
flag2=0;
if(a[1] < a[2])
  flag1+=1;
if(a[1]>a[2])
  flag2+=1;
if(b[1] < b[2])
  flag1+=1;
if(b[1]>b[2])
  flag2+=1;
if(c[1]<c[2])
  flag1+=1;
if(c[1]>c[2])
{
  flag2+=1;
if(flag1==0 && flag2>0)
  printf("yes\n");
  continue;
}
else
  flag1=flag2=0;
  if(a[2] < a[1])
     flag1+=1;
  if(a[2]>a[1])
     flag2+=1;
  if(b[2] < b[1])
```

```
flag1+=1;
             }
             if(b[2]>b[1])
               flag2+=1;
             if(c[2]<c[1])
               flag1+=1;
             if(c[2]>c[1])
               flag2+=1;
             if(flag1==0 && flag2>0)
               printf("yes\n");
               continue;
             }
             else
             {
               printf("no\n");
             }
          }
     }
     else
        printf("no\n");
  }
}
```