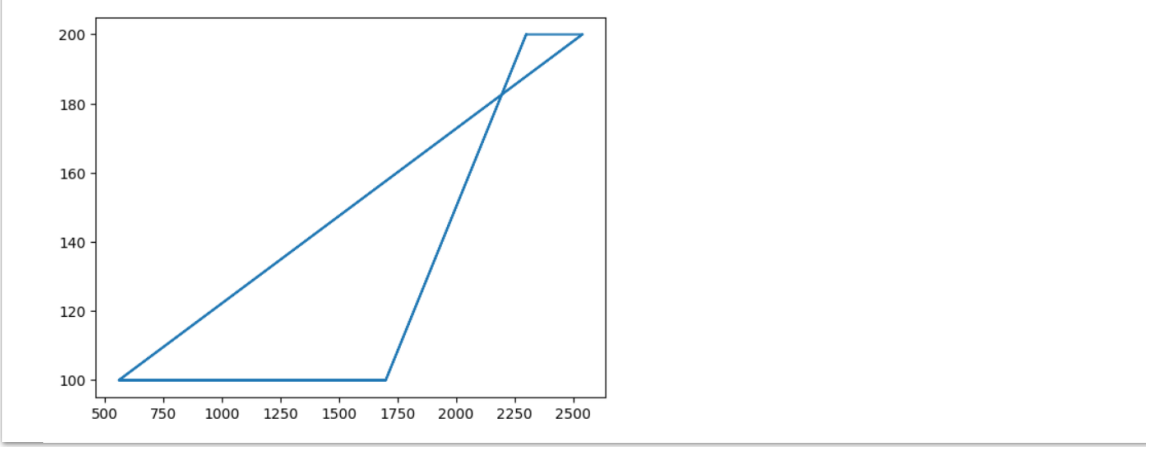
Name : Janhavi Pawar

Roll no :424

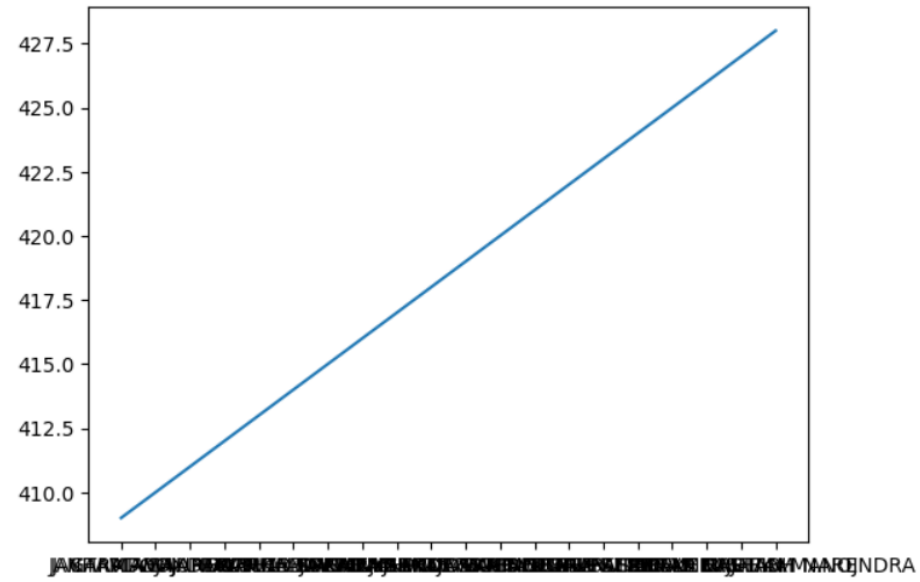
PRN : 202201070035

Division : D

```
import pandas as pd
dfa= pd.read_csv(r'/content/drive/MyDrive/PRODUCT ID.csv')
dfa1= pd.read_csv(r'/content/drive/MyDrive/PRODUCT SALES.csv')
r=dfa1['Rate/Unit']
m=dfa1['Qty.']
xpoints= r
ypoints= m
y=[]
x=[]
#Graining
def graph(m,r):
  for i in range(len(m)):
    if m[i]>=100:
      y.append(m[i])
  for i in range(len(r)):
    if r[i]>=500:
      x.append(r[i])
  #print(y)
  #print(x)
  import matplotlib.pyplot as plt
  xpoints= x
  ypoints= y
  plt.plot(xpoints,ypoints)
  plt.show()
graph(m,r)
```

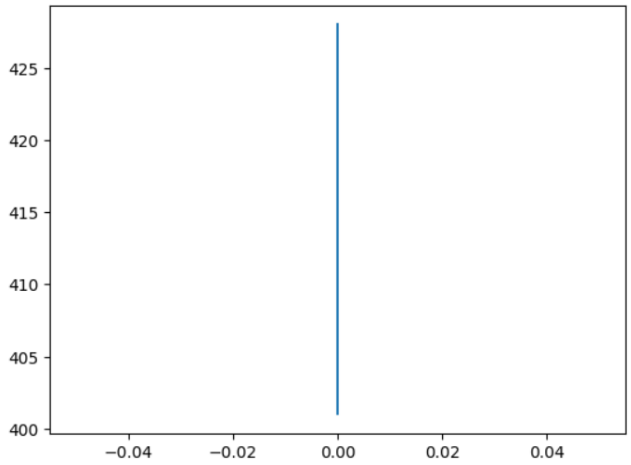


```
import pandas as pd
from matplotlib import pyplot as plt
df= pd.read_csv(r'/content/drive/MyDrive/task.csv')
#print(df)
data=df.values.tolist()
a=df['rollno']
b=df['name']
c=df['marks']
d=df['attendance']
e=df.rollno=df.rollno.astype('int64')
g=df.marks=df.marks.astype('int64')
v=df['name'][df.rollno>408]
n=df['rollno'][df.rollno>408]
def name(v):
  xpoints=v
  ypoints=n
  plt.plot(xpoints,ypoints)
  plt.show()
name(v)
```




```
h=df.attendance=df.attendance.astype('int64')
a1=df.groupby('name')['rollno'].count()>=2
b1=df.groupby('name')['rollno'].head()
c1=df.aggregate(['sum','min','max'])
def name1(a1):
  #print(a1)
  xpoints=a1
  ypoints=b1
  plt.plot(xpoints,ypoints)
  plt.show()
```

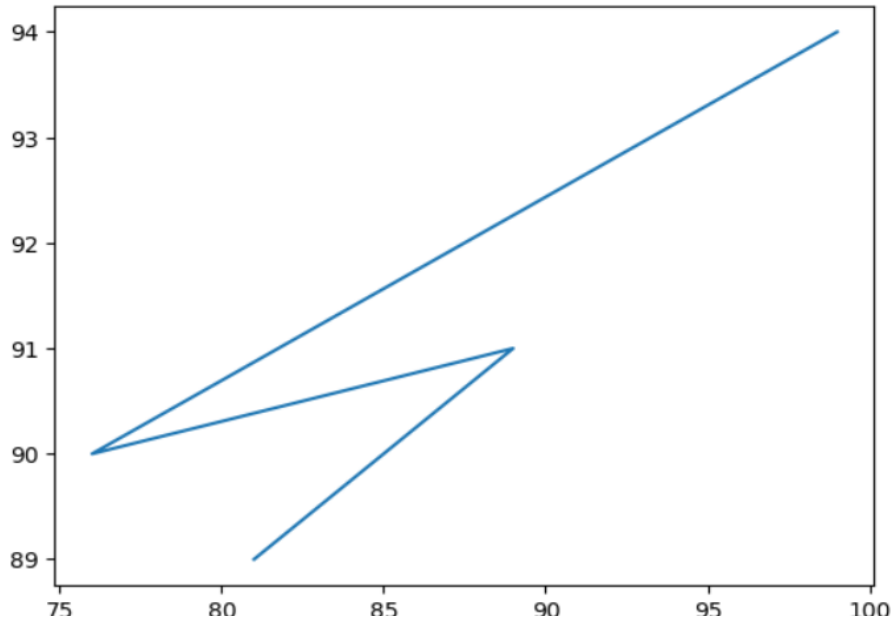
```
name1(a1)
```




```
print("The students of D2 with more than 80 marks and attendance more
than 80")
mu=df['marks'][df.marks>50][df.rollno>408][df.attendance>80]
nu=df['attendance'][df.marks>50][df.rollno>408][df.attendance>80]
def att(mu,nu):

  ii=mu.dropna()
  oo=nu.dropna()
  from matplotlib import pyplot as plt
  xpoints=ii
  ypoints=oo
  plt.plot(xpoints,ypoints)
  plt.show()
att(mu,nu)
```

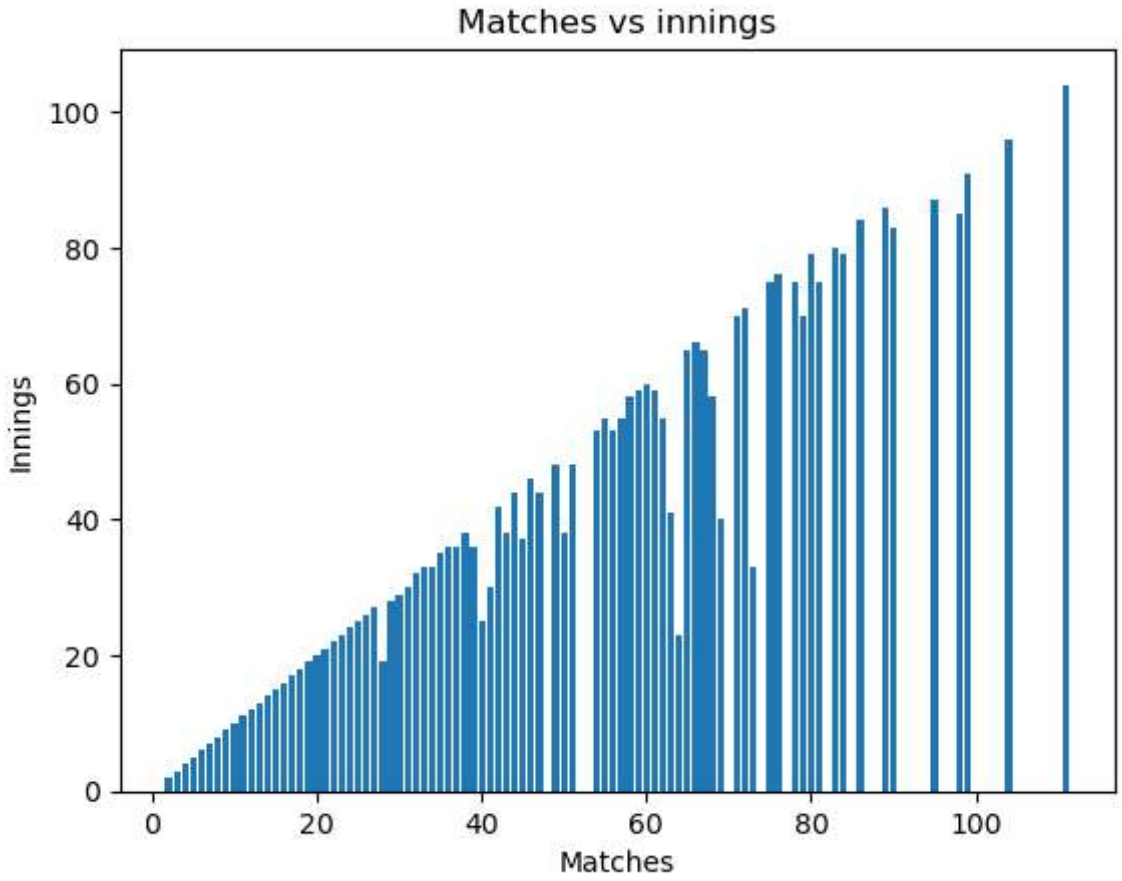
```
The students of D2 with more than 80 marks and attendance more than 80
```



In [7]:
```
import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv('C:/Users/victus/OneDrive/Desktop/Players Data set.csv')
```

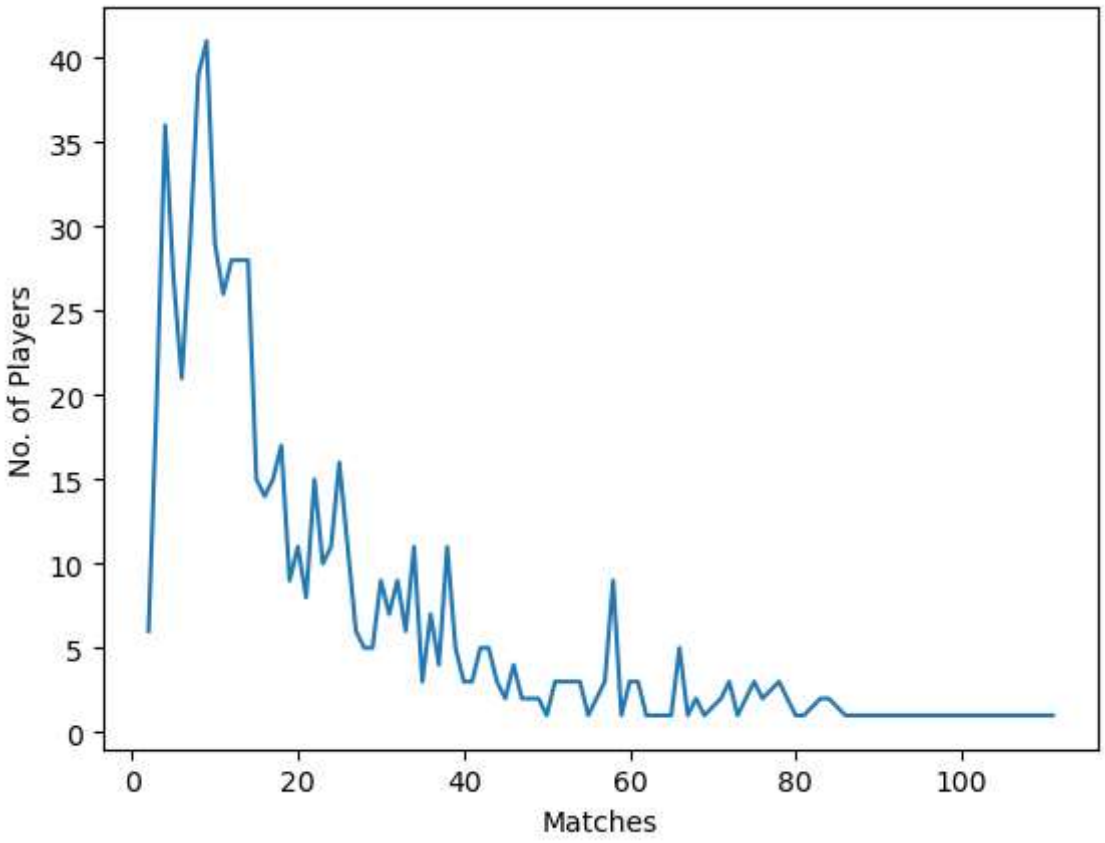
In [9]:
```
plt.bar(df['Mat'],df['Inns'])
plt.title('Matches vs innings')
plt.xlabel('Matches')
plt.ylabel('Innings')
```

Out[9]:
```
Text(0, 0.5, 'Innings')
```



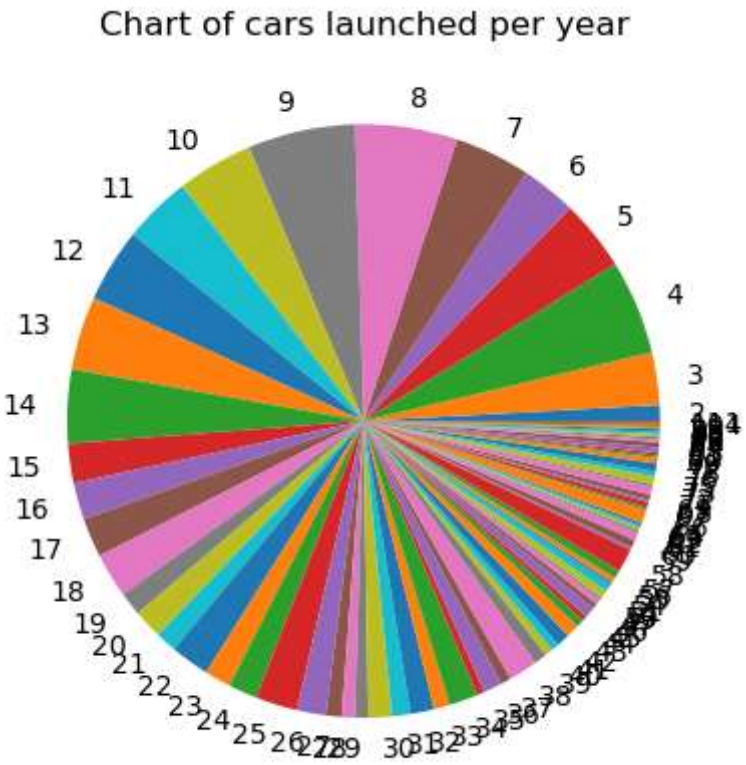
In [12]:
```
matches=df['Mat'].tolist()
matches=set(country)
matches=list(country)
noofplayers=[]
for i in range(len(country)):
 a=df.groupby('Mat').get_group(matches[i])
 b=len(a)
 noofplayers.append(b)
plt.plot(matches,noofplayers)
plt.xlabel('Matches')
plt.ylabel('No. of Players')
```

Out[12]: Text(0, 0.5, 'No. of Players')



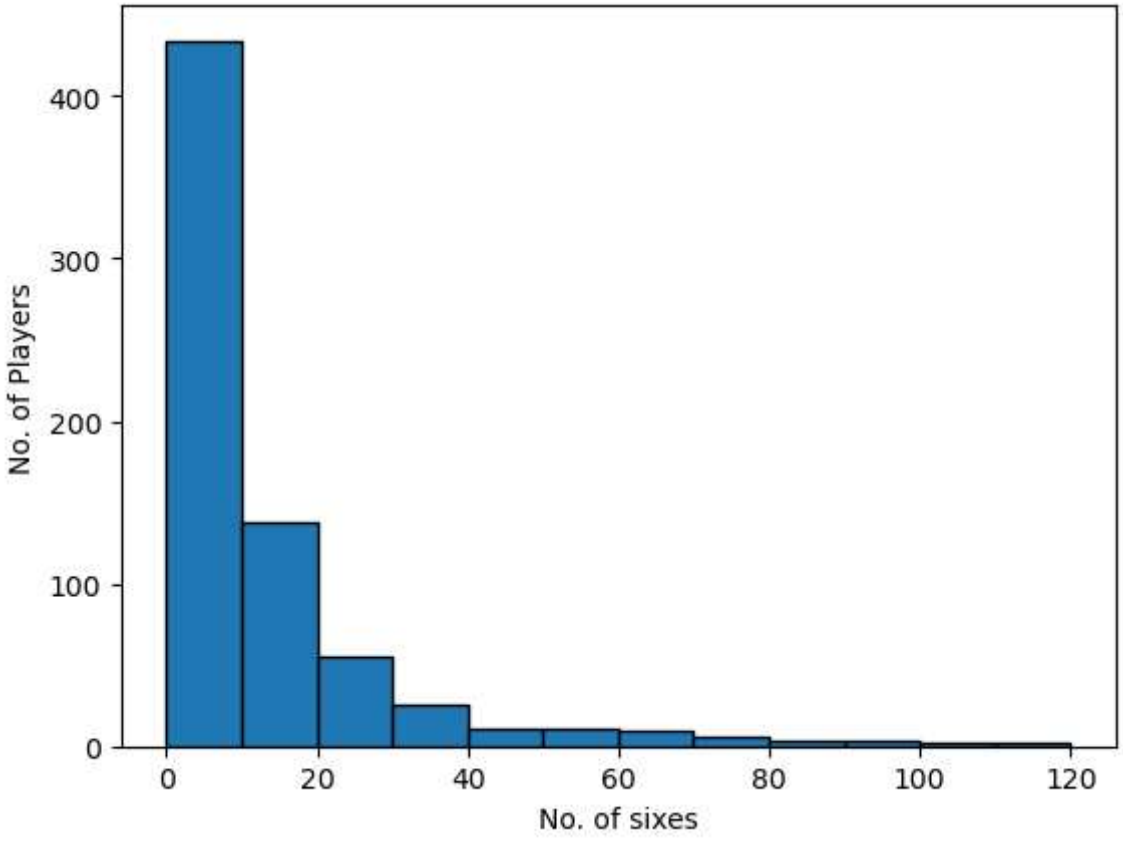
In [16]:
```
year=df['Mat'].tolist()
year=set(year)
year=list(year)
noofmodels=[]
for i in range(len(year)):
 a=df.groupby('Mat').get_group(year[i])
 b=len(a)
 noofmodels.append(b)
plt.pie(noofmodels,labels=year)
plt.title('Chart of cars launched per year')
```

Out[16]: Text(0.5, 1.0, 'Chart of cars launched per year')



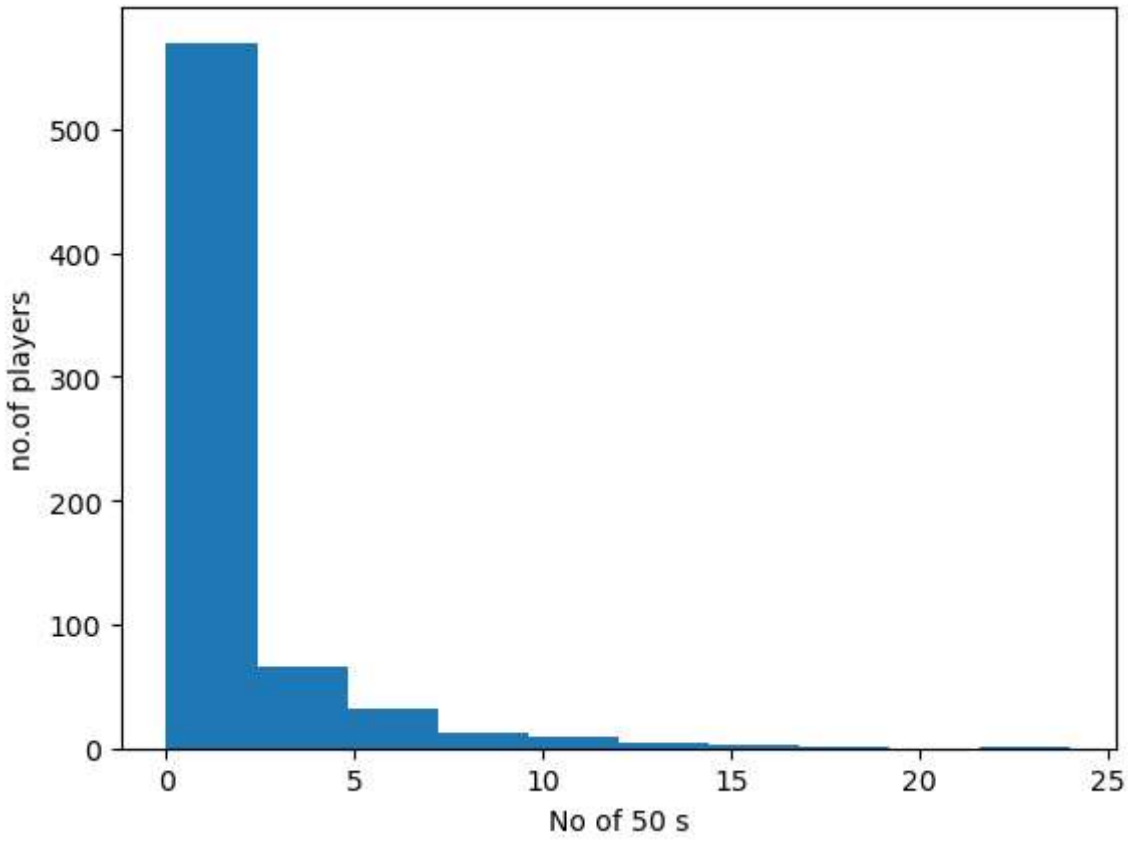
In [21]:
```
b=df['6s']
plt.hist(b,bins=12,edgecolor='black')
plt.xlabel('No. of sixes')
plt.ylabel('No. of Players')
```

Out[21]: Text(0, 0.5, 'No. of Players')



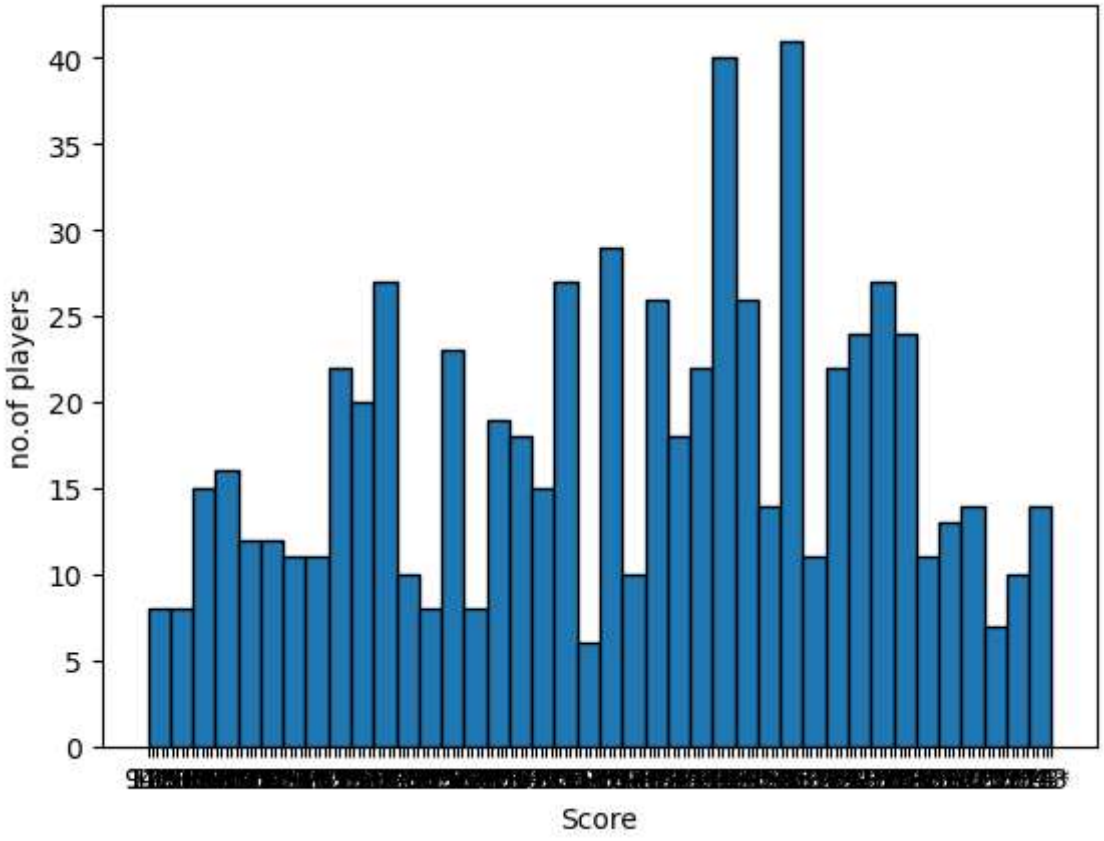
In [22]:
```
d=df['50']
plt.hist(d)
plt.xlabel('No of 50 s')
plt.ylabel('no.of players')
```

Out[22]:
```
Text(0, 0.5, 'no.of players')
```



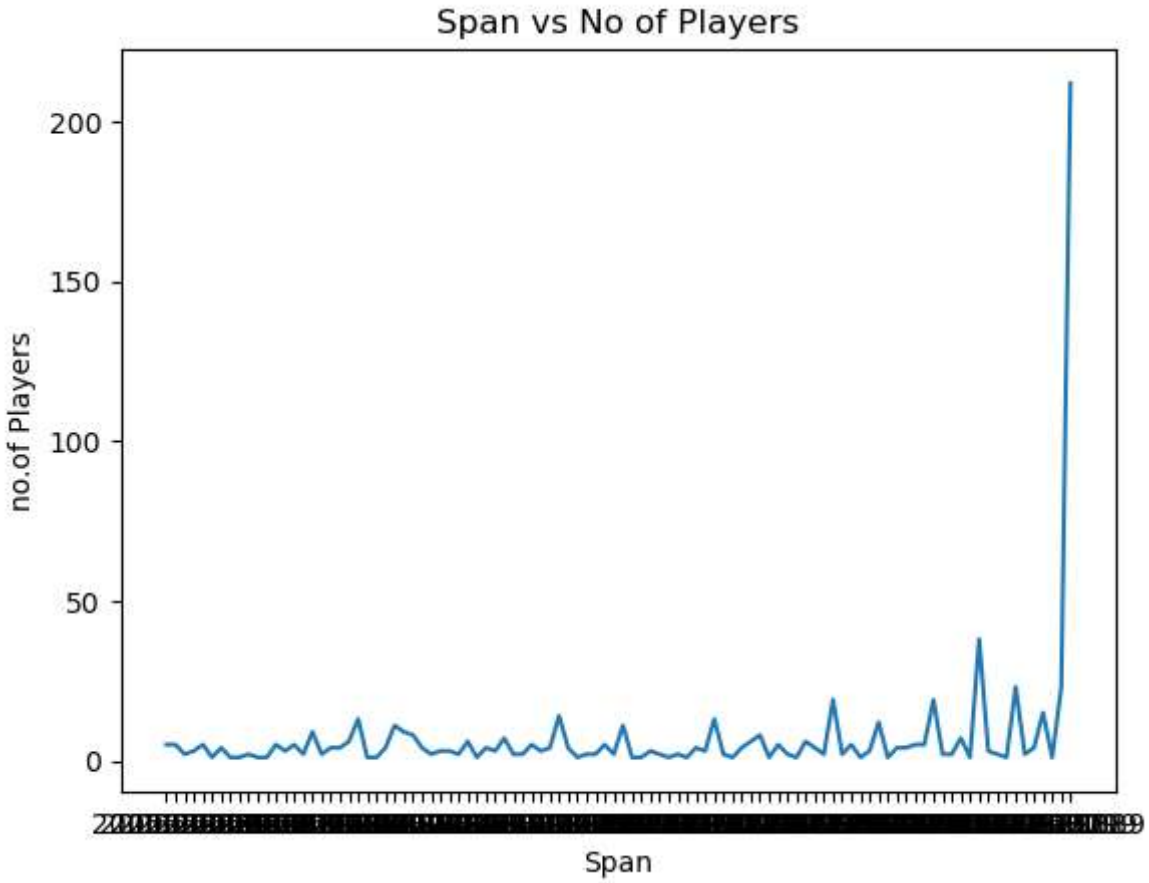
In [23]:
```
d=df['HS']
plt.hist(d,bins=40,edgecolor='black')
plt.xlabel('Score')
plt.ylabel('no.of players')
```

Out[23]:
```
Text(0, 0.5, 'no.of players')
```



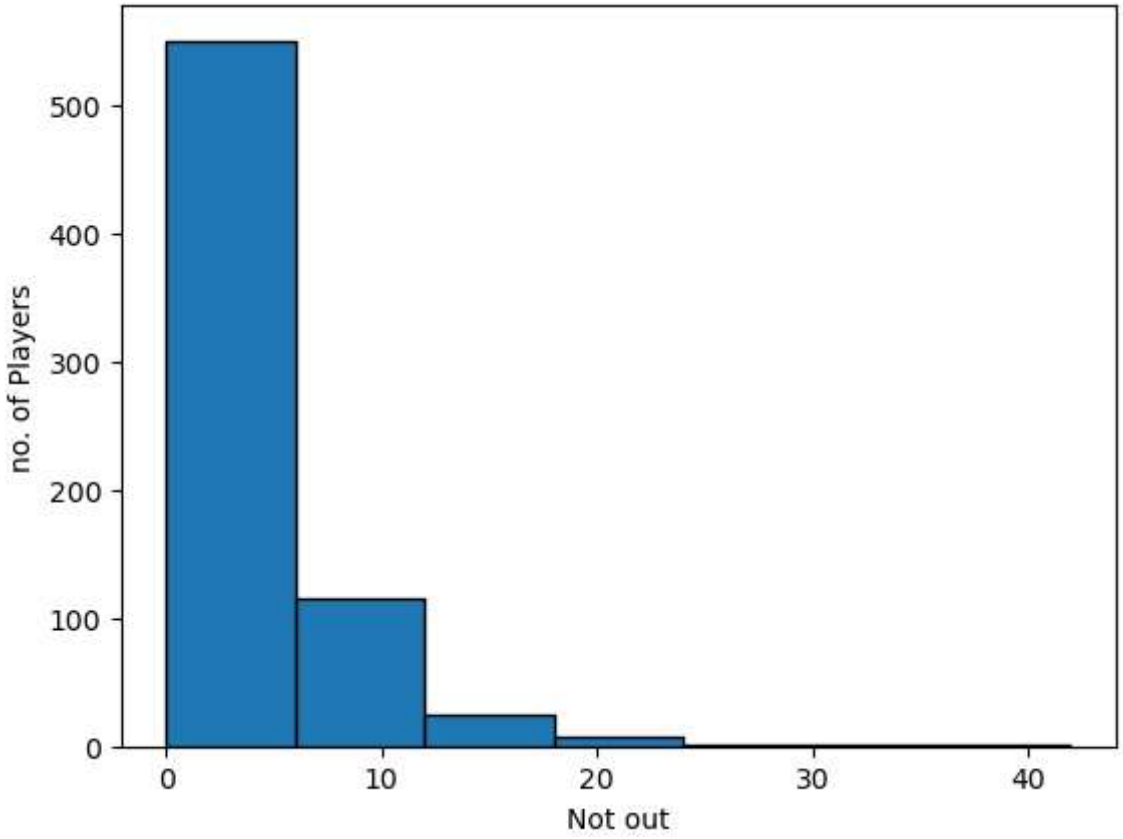
In [25]:
```
d=df['Span'].tolist()
d=set(d)
d=list(d)
d.sort()
accelerate=[]
for i in range(len(d)):
 a=df.groupby('Span').get_group(d[i])
 b=len(a)
 accelerate.append(b)
plt.plot(d,accelerate)
plt.title('Span vs No of Players')
plt.xlabel('Span')
plt.ylabel('no.of Players')
```

Out[25]: Text(0, 0.5, 'no.of Players')



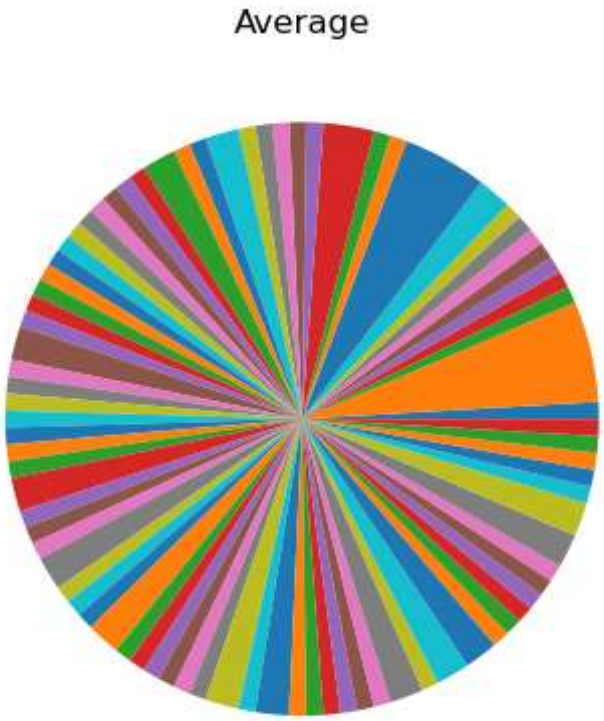
In [26]:
```
d=df['Not out']
plt.hist(d,bins=7,edgecolor='black')
plt.xlabel('Not out')
plt.ylabel('no. of Players')
```

Out[26]:
```
Text(0, 0.5, 'no. of Players')
```



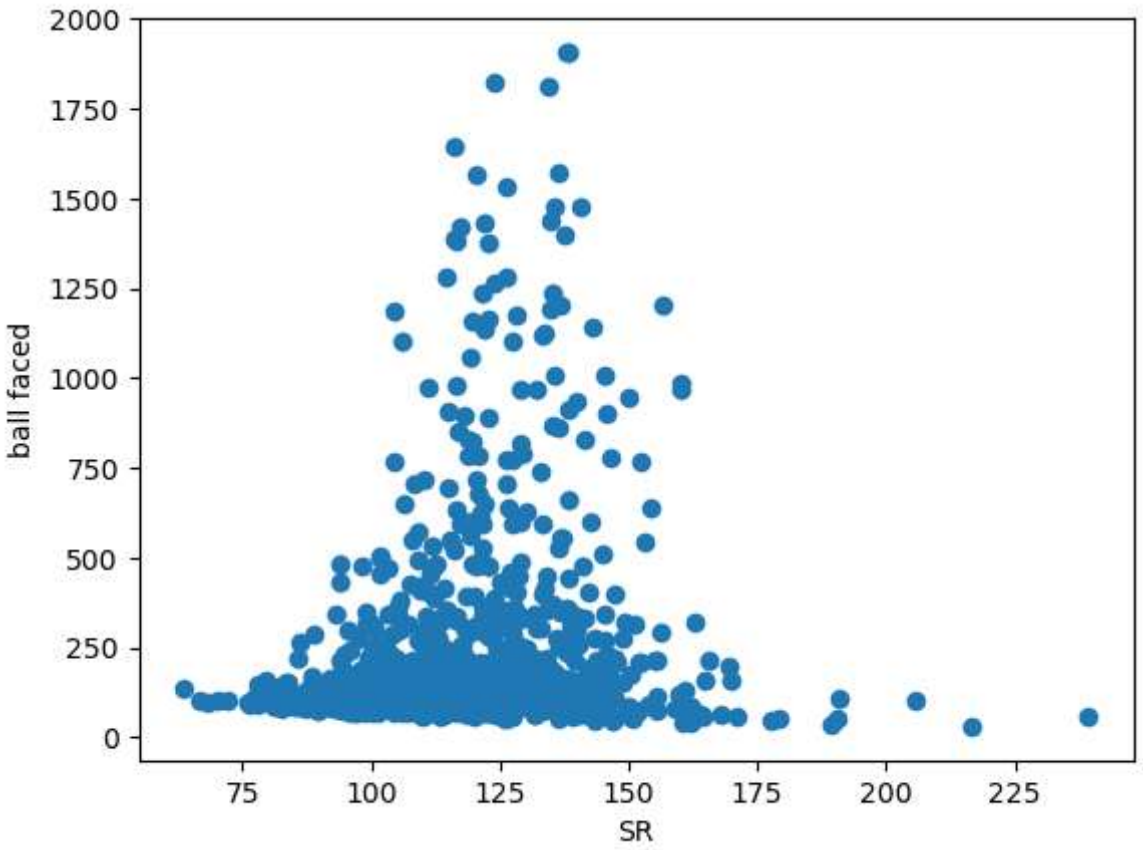
In [30]:
```
mpg=df['Ave'].tolist()
mpg=set(mpg)
mpg=list(mpg)
noofply=[]
for i in range(len(year)):
 a=df.groupby('Ave').get_group(mpg[i])
 b=len(a)
 noofply.append(b)
plt.pie(noofply)
plt.title('Average')
```

Out[30]: Text(0.5, 1.0, 'Average')



In [34]:
```
d=df['ball faced']
e=df['SR']
plt.scatter(e,d)
plt.ylabel('ball faced')
plt.xlabel('SR')
```

Out[34]: Text(0.5, 0, 'SR')



In [ ]: