```
Stat 270: Ignore this unless you happen to be curious about R
These programs simulate the sequence of goals in a hockey game (hockeygame
program) or the result of several matches between two teams (A and B say)
(hockey program - which also uses the hockey1 subprogram).
you can specify the average number of goals in a game (avg); the
probability that the A team wins (ateam); and the number of games between
the two teams that you want to simulate (to get a summary, without the game
detail of the hockeygame program).
To run the programs you open R and at the > prompt type
hockey()
or hockeygame()
If you want to vary the defaults, you put them in the brackets, like
hockeygame(avg=5,ateam=.6)
The defaults are the values that appear in the program definition. They
will be over-ridden when you use the above form.
You need to place each program is a textfile and place it in the place
R expects programs to be. This can be found out by issuing
getwd()
which is the command to "get working directory".
}
> hockey
function (avg=6,ateam=.5,ngames=10)
Ł
        agames=0
        ties=0
        print("A B goals")
        for (j in 1:ngames)
                score=hockey1(avg,ateam)
        {
                print(score)
        if (score[1]>score[2]) {agames=agames+1}
        if (score[1]==score[2]) {ties=ties+1}
        }
        print("Games, A Wins, Ties")
        print(c(ngames,agames,ties))
}
> hockey1
function (avg=6,ateam=.5)
```

{

```
tota=0
        ngoals=rpois(1,avg)
        b=runif(ngoals)
        for (i in 1:ngoals)
                {if (b[i]<ateam) {tota=tota+1}</pre>
                }
                         totb=ngoals-tota
                         score=c(tota,totb)
                         invisible(score)
}
> hockeygame
function (avg=6,ateam=.5)
{
                 tota=0
                 totb=0
        ngoals=rpois(1,avg)
        b=runif(ngoals)
        for (i in 1:ngoals)
                 {if (b[i]<ateam) {print("A");tota=tota+1} else {print</pre>
("B");totb=totb+1}
                         print(c(tota,totb))
                         pause()
                }
                         totb=ngoals-tota
                         score=c(tota,totb)
                         print("Final Score is")
                         print("A B")
                         print(score)
                         invisible(score)
```