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**Appendix 1： PASCAL source code**

arr1,arr2:array [1..83] of integer;

arr3:array [1..83] of integer;

arr4,arr5:array [1..83] of integer;

i,x,k:integer;

t1:array [1..30,1..2] of integer;

charArray:array[1..83] of char;

t2:array ['a'..'d','a'..'d'] of integer;

function calculate(x,y:integer):char; begin

if arr3[i]=1 then calculate:='a' else

if t1[x,1]<>t1[y,1] then calculate:='d' else

if t1[x,2]=t1[y,2] then calculate:='b' else calculate:='c'

end;

procedure

initialize; begin

assign(input,'biao1.txt'); reset(input);

for i:=1 to 30 do readln(t1[i,1],t1[i,2]);

close(input);

end;

procedure initialize2; var

i,j:char;

begin

assign(input,'biao2.txt');

reset(input);

for i:='a' to 'd' do

for j:='a' to 'd' do

read(t2[i,j]);

close(input);

end;

begin

initialize; initialize2;

assign(input,'data.txt');

assign(output,'answer.txt');

reset(input); rewrite(output);

for k:=1 to 5 do

begin

readln(x);

readln(arr2[1],arr3[1],arr5[1]); i:=1;

charArray[1]:=calculate(x,arr5[1]);

arr4[1]:=0; arr1[1]:=arr2[1]-1;

for i:=2 to 82 do

begin

readln(arr2[i],arr3[i],arr5[i]);

arr1[i]:=arr2[i]-arr2[i-1]-1;

charArray[i]:=calculate(x,arr5[i]);

arr4[i]:=t2[charArray[i],charArray[i-1]];

end;

writeln(x);

for i:=1 to 82 do

writeln(arr2[i],' ',arr1[i],' ',arr3[i],' ',arr5[i],' ',charArray[i],' ',arr4[i]);

writeln(170-arr2[82]);

writeln;

end;

close(input);

close(output);

model: sets:

M/1..30/:r,s;

N/1..7/:w;

links(M,N):x;

endsets

**Appendix 2： lingo program for computing values of time interval：**

@for(M(I):r(I)\*81=@sum(N(J):x(I,J)\*w(J)));

@for(M(I):s(I)\*81=@sum(N(J):x(I,J)\*((w(J)-r(I))^2)));

data:

x=@ole('C:\Documents and Settings\HP\desktop\NBA Analysis\ProgramData.xls','a');

w=0 1 2 3 4 5 6;

@ole('C:\Documents and Settings\HP\desktop\NBA Analysis\ComputationResult.xls','b')=s;

enddata end

Result：

Feasible solution found.

Total solver iterations: 0

Export Summary Report

---------------------

Transfer Method: OLE BASED

Workbook: C:\Documents and Settings\HP\desktop\NBA Analysis

Ranges Specified: 1

b

Ranges Found: 1

Range Size Mismatches: 0

Values Transferred: 30

model: sets: M/1..6/:s;

**Appendix 3： lingo program for calculating the effects of opponents' power ranking on a team**

N/1..30/:x,w;

links(M,N):r;

endsets

@for(N(J):w(J)=@sum(M(I):x(J)/(x(J)+r(I,J))));

data:

r=@ole('C:\Documents and Settings\HP\desktop\NBA Analysis\programData.xls','aq');

x=@ole('C:\Documents and Settings\HP\desktop\NBA Analysis\programData.xls','aw');

@ole('C:\Documents and Settings\HP\desktop\NBA Analysis\ComputationResult.xls','ae')=w;

enddata end

Result：

Feasible solution found.

Total solver iterations: 0

Export Summary Report

---------------------

Transfer Method: OLE BASED

Workbook: C:\Documents and Settings\HP\desktop\NBA Analysis

Ranges Specified: 1

ae

Ranges Found: 1

Range Size Mismatches: 0

Values Transferred: 30

**Appendix 4: Eastern Conference (Purple row is the current team; rows below it are the teams in same Conf. but different Div.)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Eastern Conference | Team | WIN% | DIFFERENCE |  | Eastern Conference | Team | WIN% | DIFFERENCE |  | Eastern Conference | Team | WIN% | DIFFERENCE |
| Team | Magic | **0.634** |  |  | Team | Celtics | **0.805** |  |  | Team | Pistons | **0.72** |  |
|  | Celtics | 0.805 | -0.171 |  |  | Magic | 0.634 | 0.171 |  |  | Magic | 0.634 | 0.086 |
| Raptors | 0.5 | 0.134 | Wizards | 0.524 | 0.281 | Wizards | 0.524 | 0.196 |
| 76ers | 0.488 | 0.146 | Hawks | 0.451 | 0.354 | Hawks | 0.451 | 0.269 |
| Nets | 0.415 | 0.219 | Bobcats | 0.39 | 0.415 | Bobcats | 0.39 | 0.33 |
|  | Knicks | 0.28 | 0.354 |  | Heat | 0.183 | 0.622 |  | Heat | 0.183 | 0.537 |
|  | Pistons | 0.72 | -0.086 |  | Pistons | 0.72 | 0.085 |  | Celtics | 0.805 | -0.085 |
|  | Cavaliers | 0.549 | 0.085 |  | Cavaliers | 0.549 | 0.256 |  | Raptors | 0.5 | 0.22 |
|
| Pacers | 0.439 | 0.195 | Pacers | 0.439 | 0.366 | 76ers | 0.488 | 0.232 |
| Bulls | 0.402 | 0.232 | Bulls | 0.402 | 0.403 | Nets | 0.415 | 0.305 |
| Bucks | 0.317 | 0.317 | Bucks | 0.317 | 0.488 | Knicks | 0.28 | 0.44 |
| Team | Wizards | **0.524** |  |  | Team | Raptors | **0.5** |  |  | Team | Cavaliers | **0.549** |  |
|  | Celtics | 0.805 | -0.281 |  |  | Magic | 0.634 | -0.134 |  |  | Magic | 0.634 | -0.085 |
| Raptors | 0.5 | 0.024 | Wizards | 0.524 | -0.024 | Wizards | 0.524 | 0.025 |
| 76ers | 0.488 | 0.036 | Hawks | 0.451 | 0.049 | Hawks | 0.451 | 0.098 |
| Nets | 0.415 | 0.109 | Bobcats | 0.39 | 0.11 | Bobcats | 0.39 | 0.159 |
|  | Knicks | 0.28 | 0.244 |  | Heat | 0.183 | 0.317 |  | Heat | 0.183 | 0.366 |
|  | Pistons | 0.72 | -0.196 |  | Pistons | 0.72 | -0.22 |  | Celtics | 0.805 | -0.256 |
|  | Cavaliers | 0.549 | -0.025 |  | Cavaliers | 0.549 | -0.049 |  | Raptors | 0.5 | 0.049 |
| Pacers | 0.439 | 0.085 | Pacers | 0.439 | 0.061 | 76ers | 0.488 | 0.061 |
| Bulls | 0.402 | 0.122 | Bulls | 0.402 | 0.098 | Nets | 0.415 | 0.134 |
| Bucks | 0.317 | 0.207 | Bucks | 0.317 | 0.183 | Knicks | 0.28 | 0.269 |
| Team | Hawks | **0.451** |  |  | Team | 76ers | **0.488** |  |  | Team | Pacers | **0.439** |  |
| Same Conf.  Same Conf. | Celtics | 0.805 | -0.354 |  |  | Magic | 0.634 | -0.146 |  |  | Magic | 0.634 | -0.195 |
| Raptors | 0.5 | -0.049 | Wizards | 0.524 | -0.036 | Wizards | 0.524 | -0.085 |
| 76ers | 0.488 | -0.037 | Hawks | 0.451 | 0.037 | Hawks | 0.451 | -0.012 |
| Nets | 0.415 | 0.036 | Bobcats | 0.39 | 0.098 | Bobcats | 0.39 | 0.049 |
|  | Knicks | 0.28 | 0.171 |  | Heat | 0.183 | 0.305 |  | Heat | 0.183 | 0.256 |
|  | Pistons | 0.72 | -0.269 |  | Pistons | 0.72 | -0.232 |  | Celtics | 0.805 | -0.366 |
|  | Cavaliers | 0.549 | -0.098 |  | Cavaliers | 0.549 | -0.061 |  | Raptors | 0.5 | -0.061 |
|
| Pacers | 0.439 | 0.012 | Pacers | 0.439 | 0.049 | 76ers | 0.488 | -0.049 |
| Bulls | 0.402 | 0.049 | Bulls | 0.402 | 0.086 | Nets | 0.415 | 0.024 |
| Bucks | 0.317 | 0.134 | Bucks | 0.317 | 0.171 | Knicks | 0.28 | 0.159 |
| Team | Bobcats | **0.39** |  |  | Team | Nets | **0.415** |  |  | Team | Bulls | **0.402** |  |
| Same Conf.  Diff. Div. | Celtics | 0.805 | -0.415 |  |  | Magic | 0.634 | -0.219 |  |  | Magic | 0.634 | -0.232 |
| Raptors | 0.5 | -0.11 | Wizards | 0.524 | -0.109 | Wizards | 0.524 | -0.122 |
| 76ers | 0.488 | -0.098 | Hawks | 0.451 | -0.036 | Hawks | 0.451 | -0.049 |
| Nets | 0.415 | -0.025 | Bobcats | 0.39 | 0.025 | Bobcats | 0.39 | 0.012 |
|  | Knicks | 0.28 | 0.11 |  | Heat | 0.183 | 0.232 |  | Heat | 0.183 | 0.219 |
|  | Pistons | 0.72 | -0.33 |  | Pistons | 0.72 | -0.305 |  | Celtics | 0.805 | -0.403 |
|  | Cavaliers | 0.549 | -0.159 |  | Cavaliers | 0.549 | -0.134 |  | Raptors | 0.5 | -0.098 |
|
| Pacers | 0.439 | -0.049 | Pacers | 0.439 | -0.024 | 76ers | 0.488 | -0.086 |
| Bulls | 0.402 | -0.012 | Bulls | 0.402 | 0.013 | Nets | 0.415 | -0.013 |
| Bucks | 0.317 | 0.073 | Bucks | 0.317 | 0.098 | Knicks | 0.28 | 0.122 |
| Team | Heat | **0.183** |  |  | Team | Knicks | **0.28** |  |  | Team | Bucks | **0.317** |  |
|  | Celtics | 0.805 | -0.622 |  |  | Magic | 0.634 | -0.354 |  |  | Magic | 0.634 | -0.317 |
| Raptors | 0.5 | -0.317 | Wizards | 0.524 | -0.244 | Wizards | 0.524 | -0.207 |
| 76ers | 0.488 | -0.305 | Hawks | 0.451 | -0.171 | Hawks | 0.451 | -0.134 |
| Nets | 0.415 | -0.232 | Bobcats | 0.39 | -0.11 | Bobcats | 0.39 | -0.073 |
|  | Knicks | 0.28 | -0.097 |  | Heat | 0.183 | 0.097 |  | Heat | 0.183 | 0.134 |
|  | Pistons | 0.72 | -0.537 |  | Pistons | 0.72 | -0.44 |  | Celtics | 0.805 | -0.488 |
|  | Cavaliers | 0.549 | -0.366 |  | Cavaliers | 0.549 | -0.269 |  | Raptors | 0.5 | -0.183 |
| Pacers | 0.439 | -0.256 | Pacers | 0.439 | -0.159 | 76ers | 0.488 | -0.171 |
| Bulls | 0.402 | -0.219 | Bulls | 0.402 | -0.122 | Nets | 0.415 | -0.098 |
| Bucks | 0.317 | -0.134 | Bucks | 0.317 | -0.037 | Knicks | 0.28 | 0.037 |

**Appendix 4: Western Conference (Purple row is the current team; rows below it are teams in same Conf. but different Div.)**

|  |  |  |  |
| --- | --- | --- | --- |
| Western | Team | Win% | DIFFERENCE |
| Team | Jazz | **0.659** |  |
|  | Hornets | 0.683 | -0.024 |
| Spurs | 0.683 | -0.024 |
| Rockets | 0.671 | -0.012 |
| Mavericks | 0.622 | 0.037 |
|  | Grizzlies | 0.268 | 0.391 |
|  | Lakers | 0.695 | -0.036 |
|  | Suns | 0.671 | -0.012 |
|
| Warriors | 0.585 | 0.074 |
| Kings | 0.463 | 0.196 |
| Clippers | 0.28 | 0.379 |
| Team | Nuggets | **0.61** |  |
|  | Hornets | 0.683 | -0.073 |
| Spurs | 0.683 | -0.073 |
| Rockets | 0.671 | -0.061 |
| Mavericks | 0.622 | -0.012 |
|  | Grizzlies | 0.268 | 0.342 |
|  | Lakers | 0.695 | -0.085 |
|  | Suns | 0.671 | -0.061 |
| Warriors | 0.585 | 0.025 |
| Kings | 0.463 | 0.147 |
| Clippers | 0.28 | 0.33 |
| Team | Trail Blazers | **0.5** |  |
|  | Hornets | 0.683 | -0.183 |
| Spurs | 0.683 | -0.183 |
| Rockets | 0.671 | -0.171 |
| Mavericks | 0.622 | -0.122 |
|  | Grizzlies | 0.268 | 0.232 |
|  | Lakers | 0.695 | -0.195 |
|  | Suns | 0.671 | -0.171 |
|
| Warriors | 0.585 | -0.085 |
| Kings | 0.463 | 0.037 |
| Clippers | 0.28 | 0.22 |
| Team | Timberwolves | **0.268** |  |
|  | Hornets | 0.683 | -0.415 |
| Spurs | 0.683 | -0.415 |
| Rockets | 0.671 | -0.403 |
| Mavericks | 0.622 | -0.354 |
|  | Grizzlies | 0.268 | 0 |
|  | Lakers | 0.695 | -0.427 |
|  | Suns | 0.671 | -0.403 |
|
| Warriors | 0.585 | -0.317 |
| Kings | 0.463 | -0.195 |
| Clippers | 0.28 | -0.012 |
| Team | Super Sonics | **0.244** |  |
|  | Hornets | 0.683 | -0.439 |
| Spurs | 0.683 | -0.439 |
| Rockets | 0.671 | -0.427 |
| Mavericks | 0.622 | -0.378 |
|  | Grizzlies | 0.268 | -0.024 |
|  | Lakers | 0.695 | -0.451 |
|  | Suns | 0.671 | -0.427 |
| Warriors | 0.585 | -0.341 |
| Kings | 0.463 | -0.219 |
| Clippers | 0.28 | -0.036 |

|  |  |  |  |
| --- | --- | --- | --- |
| Western | Team | Win% | DIFFERENCE |
| Team | Lakers | **0.695** |  |
|  | Jazz | 0.659 | 0.036 |
| Nuggets | 0.61 | 0.085 |
| Trail Blazers | 0.5 | 0.195 |
| Timberwolves | 0.268 | 0.427 |
|  | Super Sonics | 0.244 | 0.451 |
|  | Hornets | 0.683 | 0.012 |
|  | Spurs | 0.683 | 0.012 |
|
| Rockets | 0.671 | 0.024 |
| Mavericks | 0.622 | 0.073 |
| Grizzlies | 0.268 | 0.427 |
| Team | Suns | **0.671** |  |
|  | Jazz | 0.659 | 0.012 |
| Nuggets | 0.61 | 0.061 |
| Trail Blazers | 0.5 | 0.171 |
| Timberwolves | 0.268 | 0.403 |
|  | Super Sonics | 0.244 | 0.427 |
|  | Hornets | 0.683 | -0.012 |
|  | Spurs | 0.683 | -0.012 |
| Rockets | 0.671 | 0 |
| Mavericks | 0.622 | 0.049 |
| Grizzlies | 0.268 | 0.403 |
| Team | Warriors | **0.585** |  |
|  | Jazz | 0.659 | -0.074 |
| Nuggets | 0.61 | -0.025 |
| Trail Blazers | 0.5 | 0.085 |
| Timberwolves | 0.268 | 0.317 |
|  | Super Sonics | 0.244 | 0.341 |
|  | Hornets | 0.683 | -0.098 |
|  | Spurs | 0.683 | -0.098 |
|
| Rockets | 0.671 | -0.086 |
| Mavericks | 0.622 | -0.037 |
| Grizzlies | 0.268 | 0.317 |
| Team | Kings | **0.463** |  |
|  | Jazz | 0.659 | -0.196 |
| Nuggets | 0.61 | -0.147 |
| Trail Blazers | 0.5 | -0.037 |
| Timberwolves | 0.268 | 0.195 |
|  | Super Sonics | 0.244 | 0.219 |
|  | Hornets | 0.683 | -0.22 |
|  | Spurs | 0.683 | -0.22 |
|
| Rockets | 0.671 | -0.208 |
| Mavericks | 0.622 | -0.159 |
| Grizzlies | 0.268 | 0.195 |
| Team | Clippers | **0.28** |  |
|  | Jazz | 0.659 | -0.379 |
| Nuggets | 0.61 | -0.33 |
| Trail Blazers | 0.5 | -0.22 |
| Timberwolves | 0.268 | 0.012 |
|  | Super Sonics | 0.244 | 0.036 |
|  | Hornets | 0.683 | -0.403 |
|  | Spurs | 0.683 | -0.403 |
| Rockets | 0.671 | -0.391 |
| Mavericks | 0.622 | -0.342 |
| Grizzlies | 0.268 | 0.012 |

|  |  |  |  |
| --- | --- | --- | --- |
| Western | Team | WIN% | DIFFERENCE |
| Team | Hornets | **0.683** |  |
|  | Jazz | 0.659 | 0.024 |
| Nuggets | 0.61 | 0.073 |
| Trail Blazers | 0.5 | 0.183 |
| Timberwolves | 0.268 | 0.415 |
|  | Super Sonics | 0.244 | 0.439 |
|  | Lakers | 0.695 | -0.012 |
|  | Suns | 0.671 | 0.012 |
|
| Warriors | 0.585 | 0.098 |
| Kings | 0.463 | 0.22 |
| Clippers | 0.28 | 0.403 |
| Team | Spurs | **0.683** |  |
|  | Jazz | 0.659 | 0.024 |
| Nuggets | 0.61 | 0.073 |
| Trail Blazers | 0.5 | 0.183 |
| Timberwolves | 0.268 | 0.415 |
|  | Super Sonics | 0.244 | 0.439 |
|  | Lakers | 0.695 | -0.012 |
|  | Suns | 0.671 | 0.012 |
| Warriors | 0.585 | 0.098 |
| Kings | 0.463 | 0.22 |
| Clippers | 0.28 | 0.403 |
| Team | Rockets | **0.671** |  |
|  | Jazz | 0.659 | 0.012 |
| Nuggets | 0.61 | 0.061 |
| Trail Blazers | 0.5 | 0.171 |
| Timberwolves | 0.268 | 0.403 |
|  | Super Sonics | 0.244 | 0.427 |
|  | Lakers | 0.695 | -0.024 |
|  | Suns | 0.671 | 0 |
|
| Warriors | 0.585 | 0.086 |
| Kings | 0.463 | 0.208 |
| Clippers | 0.28 | 0.391 |
| Team | Mavericks | **0.622** |  |
|  | Jazz | 0.659 | -0.037 |
| Nuggets | 0.61 | 0.012 |
| Trail Blazers | 0.5 | 0.122 |
| Timberwolves | 0.268 | 0.354 |
|  | Super Sonics | 0.244 | 0.378 |
|  | Lakers | 0.695 | -0.073 |
|  | Suns | 0.671 | -0.049 |
|
| Warriors | 0.585 | 0.037 |
| Kings | 0.463 | 0.159 |
| Clippers | 0.28 | 0.342 |
| Team | Grizzlies | **0.268** |  |
|  | Jazz | 0.659 | -0.391 |
| Nuggets | 0.61 | -0.342 |
| Trail Blazers | 0.5 | -0.232 |
| Timberwolves | 0.268 | 0 |
|  | Super Sonics | 0.244 | 0.024 |
|  | Lakers | 0.695 | -0.427 |
|  | Suns | 0.671 | -0.403 |
| Warriors | 0.585 | -0.317 |
| Kings | 0.463 | -0.195 |
| Clippers | 0.28 | -0.012 |

**Appendix 5: Eastern Conference (Purple row is the current team; rows below it are the teams in same Conf. but different Div.)**

|  |  |  |  |
| --- | --- | --- | --- |
| Eastern | Team | Win% | Win%against |
| Team | Celtics | **0.805** |  |
|  | Magic | 0.634 | 0.559416 |
| Wizards | 0.524 | 0.605719 |
| Hawks | 0.451 | 0.640924 |
| Bobcats | 0.39 | 0.67364 |
|  | Heat | 0.183 | 0.814777 |
|  | Pistons | 0.72 | 0.527869 |
|  | Cavaliers | 0.549 | 0.594535 |
| Pacers | 0.439 | 0.647106 |
| Bulls | 0.402 | 0.666943 |
| Bucks | 0.317 | 0.717469 |
| Team | Raptors | **0.5** |  |
|  | Magic | 0.634 | 0.440917 |
| Wizards | 0.524 | 0.488281 |
| Hawks | 0.451 | 0.525762 |
| Bobcats | 0.39 | 0.561798 |
|  | Heat | 0.183 | 0.732064 |
|  | Pistons | 0.72 | 0.409836 |
|  | Cavaliers | 0.549 | 0.476644 |
| Pacers | 0.439 | 0.532481 |
| Bulls | 0.402 | 0.554324 |
| Bucks | 0.317 | 0.611995 |
| Team | 76ers | **0.488** |  |
|  | Magic | 0.634 | 0.434938 |
| Wizards | 0.524 | 0.482213 |
| Hawks | 0.451 | 0.519702 |
| Bobcats | 0.39 | 0.555809 |
|  | Heat | 0.183 | 0.727273 |
|  | Pistons | 0.72 | 0.403974 |
|  | Cavaliers | 0.549 | 0.470588 |
| Pacers | 0.439 | 0.526429 |
| Bulls | 0.402 | 0.548315 |
| Bucks | 0.317 | 0.606211 |
| Teams | Nets | **0.415** |  |
|  | Magic | 0.634 | 0.395615 |
| Wizards | 0.524 | 0.44196 |
| Hawks | 0.451 | 0.479215 |
| Bobcats | 0.39 | 0.515528 |
|  | Heat | 0.183 | 0.69398 |
|  | Pistons | 0.72 | 0.365639 |
|  | Cavaliers | 0.549 | 0.430498 |
| Pacers | 0.439 | 0.485948 |
| Bulls | 0.402 | 0.507956 |
| Bucks | 0.317 | 0.56694 |
| Team | Knicks | **0.28** |  |
|  | Magic | 0.634 | 0.306346 |
| Wizards | 0.524 | 0.348259 |
| Hawks | 0.451 | 0.383037 |
| Bobcats | 0.39 | 0.41791 |
|  | Heat | 0.183 | 0.604752 |
|  | Pistons | 0.72 | 0.28 |
|  | Cavaliers | 0.549 | 0.337756 |
| Pacers | 0.439 | 0.38943 |
| Bulls | 0.402 | 0.410557 |
| Bucks | 0.317 | 0.469012 |

|  |  |  |  |
| --- | --- | --- | --- |
| Eastern | Team | Win% | Win%against |
| Teams | Pistons | **0.72** |  |
|  | Magic | 0.634 | 0.531758 |
| Wizard | 0.524 | 0.578778 |
| Hawks | 0.451 | 0.614859 |
| Bobcats | 0.39 | 0.648649 |
|  | Heat | 0.183 | 0.797342 |
|  | Celtics | 0.805 | 0.472131 |
|  | Raptors | 0.5 | 0.590164 |
| 76ers | 0.488 | 0.596026 |
| Nets | 0.415 | 0.634361 |
| Knicks | 0.28 | 0.72 |
| Team | Cavaliers | **0.549** |  |
|  | Magic | 0.634 | 0.464074 |
| Wizard | 0.524 | 0.51165 |
| Hawks | 0.451 | 0.549 |
| Bobcats | 0.39 | 0.584665 |
|  | Heat | 0.183 | 0.75 |
|  | Celtics | 0.805 | 0.405465 |
|  | Raptors | 0.5 | 0.523356 |
| 76ers | 0.488 | 0.529412 |
| Nets | 0.415 | 0.569502 |
| Knicks | 0.28 | 0.662244 |
| Team | Pacers | **0.439** |  |
|  | Magic | 0.634 | 0.409133 |
| Wizard | 0.524 | 0.455867 |
| Hawks | 0.451 | 0.493258 |
| Bobcats | 0.39 | 0.529554 |
|  | Heat | 0.183 | 0.705788 |
|  | Celtics | 0.805 | 0.352894 |
|  | Raptors | 0.5 | 0.467519 |
| 76ers | 0.488 | 0.473571 |
| Nets | 0.415 | 0.514052 |
| Knicks | 0.28 | 0.61057 |
| Team | Bulls | **0.402** |  |
|  | Magic | 0.634 | 0.388031 |
| Wizard | 0.524 | 0.434125 |
| Hawks | 0.451 | 0.471278 |
| Bobcats | 0.39 | 0.507576 |
|  | Heat | 0.183 | 0.687179 |
|  | Celtics | 0.805 | 0.333057 |
|  | Raptors | 0.5 | 0.445676 |
| 76ers | 0.488 | 0.451685 |
| Nets | 0.415 | 0.492044 |
| Knicks | 0.28 | 0.589443 |
| Team | Bucks | **0.317** |  |
|  | Magic | 0.634 | 0.333333 |
| Wizard | 0.524 | 0.376932 |
| Hawks | 0.451 | 0.41276 |
| Bobcats | 0.39 | 0.448373 |
|  | Heat | 0.183 | 0.634 |
|  | Celtics | 0.805 | 0.282531 |
|  | Raptors | 0.5 | 0.388005 |
| 76ers | 0.488 | 0.393789 |
| Nets | 0.415 | 0.43306 |
| Knicks | 0.28 | 0.530988 |

|  |  |  |  |
| --- | --- | --- | --- |
| Eastern Conference | Team | WIN% | Win%against |
| Team | Magic | **0.634** |  |
|  | Celtics | 0.805 | 0.440584 |
| Raptors | 0.5 | 0.559083 |
| 76ers | 0.488 | 0.565062 |
| Nets | 0.415 | 0.604385 |
|  | Knicks | 0.28 | 0.693654 |
|  | Pistons | 0.72 | 0.468242 |
|  | Cavaliers | 0.549 | 0.535926 |
| Pacers | 0.439 | 0.590867 |
| Bulls | 0.402 | 0.611969 |
| Bucks | 0.317 | 0.666667 |
| Team | Wizards | **0.524** |  |
|  | Celtics | 0.805 | 0.394281 |
| Raptors | 0.5 | 0.511719 |
| 76ers | 0.488 | 0.517787 |
| Nets | 0.415 | 0.55804 |
|  | Knicks | 0.28 | 0.651741 |
|  | Pistons | 0.72 | 0.421222 |
|  | Cavaliers | 0.549 | 0.48835 |
| Pacers | 0.439 | 0.544133 |
| Bulls | 0.402 | 0.565875 |
| Bucks | 0.317 | 0.623068 |
| Team | Hawks | **0.451** |  |
|  | Celtics | 0.805 | 0.359076 |
| Raptors | 0.5 | 0.474238 |
| 76ers | 0.488 | 0.480298 |
| Nets | 0.415 | 0.520785 |
|  | Knicks | 0.28 | 0.616963 |
|  | Pistons | 0.72 | 0.385141 |
|  | Cavaliers | 0.549 | 0.451 |
| Pacers | 0.439 | 0.506742 |
| Bulls | 0.402 | 0.528722 |
| Bucks | 0.317 | 0.58724 |
| Team | Bobcats | **0.39** |  |
|  | Celtics | 0.805 | 0.32636 |
| Raptors | 0.5 | 0.438202 |
| 76ers | 0.488 | 0.444191 |
| Nets | 0.415 | 0.484472 |
|  | Knicks | 0.28 | 0.58209 |
|  | Pistons | 0.72 | 0.351351 |
|  | Cavaliers | 0.549 | 0.415335 |
| Pacers | 0.439 | 0.470446 |
| Bulls | 0.402 | 0.492424 |
| Bucks | 0.317 | 0.551627 |
| Team | Heat | **0.183** |  |
|  | Celtics | 0.805 | 0.185223 |
| Raptors | 0.5 | 0.267936 |
| 76ers | 0.488 | 0.272727 |
| Nets | 0.415 | 0.30602 |
|  | Knicks | 0.28 | 0.395248 |
|  | Pistons | 0.72 | 0.202658 |
|  | Cavaliers | 0.549 | 0.25 |
| Pacers | 0.439 | 0.294212 |
| Bulls | 0.402 | 0.312821 |
| Bucks | 0.317 | 0.366 |

**Appendix 5: Western Conference (Purple row is the current team; rows below it are the teams in same Conf. but different Div.)**

|  |  |  |  |
| --- | --- | --- | --- |
| Western | Team | Win% | Win%against |
| Team | Jazz | **0.659** |  |
|  | Hornets | 0.683 | 0.491058 |
| Spurs | 0.683 | 0.491058 |
| Rockets | 0.671 | 0.495489 |
| Mavericks | 0.622 | 0.514442 |
|  | Grizzlies | 0.268 | 0.710895 |
|  | Lakers | 0.695 | 0.486706 |
|  | Suns | 0.671 | 0.495489 |
| Warriors | 0.585 | 0.529743 |
| Kings | 0.463 | 0.587344 |
| Clippers | 0.28 | 0.70181 |
| Team | Nuggets | **0.61** |  |
|  | Hornets | 0.683 | 0.471771 |
| Spurs | 0.683 | 0.471771 |
| Rockets | 0.671 | 0.47619 |
| Mavericks | 0.622 | 0.49513 |
|  | Grizzlies | 0.268 | 0.694761 |
|  | Lakers | 0.695 | 0.467433 |
|  | Suns | 0.671 | 0.47619 |
| Warriors | 0.585 | 0.51046 |
| Kings | 0.463 | 0.5685 |
| Clippers | 0.28 | 0.685393 |
| Team | Trail Blaze | **0.5** |  |
|  | Hornets | 0.683 | 0.422654 |
| Spurs | 0.683 | 0.422654 |
| Rockets | 0.671 | 0.426985 |
| Mavericks | 0.622 | 0.445633 |
|  | Grizzlies | 0.268 | 0.651042 |
|  | Lakers | 0.695 | 0.41841 |
|  | Suns | 0.671 | 0.426985 |
| Warriors | 0.585 | 0.460829 |
| Kings | 0.463 | 0.519211 |
| Clippers | 0.28 | 0.641026 |
| Team | Timberwolves | **0.268** |  |
|  | Hornets | 0.683 | 0.281809 |
| Spurs | 0.683 | 0.281809 |
| Rockets | 0.671 | 0.28541 |
| Mavericks | 0.622 | 0.301124 |
|  | Grizzlies | 0.268 | 0.5 |
|  | Lakers | 0.695 | 0.278297 |
|  | Suns | 0.671 | 0.28541 |
| Warriors | 0.585 | 0.314185 |
| Kings | 0.463 | 0.366621 |
| Clippers | 0.28 | 0.489051 |
| Team | Super Sonics | **0.244** |  |
|  | Hornets | 0.683 | 0.263215 |
| Spurs | 0.683 | 0.263215 |
| Rockets | 0.671 | 0.266667 |
| Mavericks | 0.622 | 0.281755 |
|  | Grizzlies | 0.268 | 0.476563 |
|  | Lakers | 0.695 | 0.259851 |
|  | Suns | 0.671 | 0.266667 |
| Warriors | 0.585 | 0.294331 |
| Kings | 0.463 | 0.34512 |
| Clippers | 0.28 | 0.465649 |

|  |  |  |  |
| --- | --- | --- | --- |
| Western | Team | Win% | Win%against |
| Team | Lakers | **0.695** |  |
|  | Jazz | 0.659 | 0.513294 |
| Nuggets | 0.61 | 0.532567 |
| Trail Blazers | 0.5 | 0.58159 |
| Timberwolves | 0.268 | 0.721703 |
|  | Super Sonics | 0.244 | 0.740149 |
|  | Hornets | 0.683 | 0.504354 |
|  | Spurs | 0.683 | 0.504354 |
| Rockets | 0.671 | 0.508785 |
| Mavericks | 0.622 | 0.527715 |
| Grizzlies | 0.268 | 0.721703 |
| Team | Suns | **0.671** |  |
|  | Jazz | 0.659 | 0.504511 |
| Nuggets | 0.61 | 0.52381 |
| Trail Blazers | 0.5 | 0.573015 |
| Timberwolves | 0.268 | 0.71459 |
|  | Super Sonics | 0.244 | 0.733333 |
|  | Hornets | 0.683 | 0.495569 |
|  | Spurs | 0.683 | 0.495569 |
| Rockets | 0.671 | 0.5 |
| Mavericks | 0.622 | 0.518948 |
| Grizzlies | 0.268 | 0.71459 |
| Team | Warriors | **0.585** |  |
|  | Jazz | 0.659 | 0.470257 |
| Nuggets | 0.61 | 0.48954 |
| Trail Blazers | 0.5 | 0.539171 |
| Timberwolves | 0.268 | 0.685815 |
|  | Super Sonics | 0.244 | 0.705669 |
|  | Hornets | 0.683 | 0.461356 |
|  | Spurs | 0.683 | 0.461356 |
| Rockets | 0.671 | 0.465764 |
| Mavericks | 0.622 | 0.484673 |
| Grizzlies | 0.268 | 0.685815 |
| Team | Kings | **0.463** |  |
|  | Jazz | 0.659 | 0.412656 |
| Nuggets | 0.61 | 0.4315 |
| Trail Blazers | 0.5 | 0.480789 |
| Timberwolves | 0.268 | 0.633379 |
|  | Super Sonics | 0.244 | 0.65488 |
|  | Hornets | 0.683 | 0.404014 |
|  | Spurs | 0.683 | 0.404014 |
| Rockets | 0.671 | 0.408289 |
| Mavericks | 0.622 | 0.426728 |
| Grizzlies | 0.268 | 0.633379 |
| Team | Clippers | **0.28** |  |
|  | Jazz | 0.659 | 0.29819 |
| Nuggets | 0.61 | 0.314607 |
| Trail Blazers | 0.5 | 0.358974 |
| Timberwolves | 0.268 | 0.510949 |
|  | Super Sonics | 0.244 | 0.534351 |
|  | Hornets | 0.683 | 0.290758 |
|  | Spurs | 0.683 | 0.290758 |
| Rockets | 0.671 | 0.294427 |
| Mavericks | 0.622 | 0.310421 |
| Grizzlies | 0.268 | 0.510949 |

|  |  |  |  |
| --- | --- | --- | --- |
| Western | Team | WIN% | WIN%against |
| Team | Hornets | **0.683** |  |
|  | Jazz | 0.659 | 0.508942 |
| Nuggets | 0.61 | 0.528229 |
| Trail Blazers | 0.5 | 0.577346 |
| Timberwolves | 0.268 | 0.718191 |
|  | Super Sonics | 0.244 | 0.736785 |
|  | Lakers | 0.695 | 0.495646 |
|  | Suns | 0.671 | 0.504431 |
| Warriors | 0.585 | 0.538644 |
| Kings | 0.463 | 0.595986 |
| Clippers | 0.28 | 0.709242 |
| Team | Spurs | **0.683** |  |
|  | Jazz | 0.659 | 0.508942 |
| Nuggets | 0.61 | 0.528229 |
| Trail Blazers | 0.5 | 0.577346 |
| Timberwolves | 0.268 | 0.718191 |
|  | Super Sonics | 0.244 | 0.736785 |
|  | Lakers | 0.695 | 0.495646 |
|  | Suns | 0.671 | 0.504431 |
| Warriors | 0.585 | 0.538644 |
| Kings | 0.463 | 0.595986 |
| Clippers | 0.28 | 0.709242 |
| Team | Rockets | **0.671** |  |
|  | Jazz | 0.659 | 0.504511 |
| Nuggets | 0.61 | 0.52381 |
| Trail Blazers | 0.5 | 0.573015 |
| Timberwolves | 0.268 | 0.71459 |
|  | Super Sonics | 0.244 | 0.733333 |
|  | Lakers | 0.695 | 0.491215 |
|  | Suns | 0.671 | 0.5 |
| Warriors | 0.585 | 0.534236 |
| Kings | 0.463 | 0.591711 |
| Clippers | 0.28 | 0.705573 |
| Team | Mavericks | **0.622** |  |
|  | Jazz | 0.659 | 0.485558 |
| Nuggets | 0.61 | 0.50487 |
| Trail Blazers | 0.5 | 0.554367 |
| Timberwolves | 0.268 | 0.698876 |
|  | Super Sonics | 0.244 | 0.718245 |
|  | Lakers | 0.695 | 0.472285 |
|  | Suns | 0.671 | 0.481052 |
| Warriors | 0.585 | 0.515327 |
| Kings | 0.463 | 0.573272 |
| Clippers | 0.28 | 0.689579 |
| Team | Grizzlies | **0.268** |  |
|  | Jazz | 0.659 | 0.289105 |
| Nuggets | 0.61 | 0.305239 |
| Trail Blazers | 0.5 | 0.348958 |
| Timberwolves | 0.268 | 0.5 |
|  | Super Sonics | 0.244 | 0.523438 |
|  | Lakers | 0.695 | 0.278297 |
|  | Suns | 0.671 | 0.28541 |
| Warriors | 0.585 | 0.314185 |
| Kings | 0.463 | 0.366621 |
| Clippers | 0.28 | 0.489051 |