

## for\_while\_sum

```
clear all

n = 300;
a = rand(n);

% Program 1:for

tic
s=0;
for i=1:n
    for j=1:n
        s=s+a(i, j);
    end
end

T1=toc

% Program 2:while

tic
s=0;
i=0;
while i<n
    i=i+1;
    j=0;
    while j<n
        j=j+1;
        s=s+a(i, j);
    end
end

T2=toc

% Program 3:sum

tic
s=sum(sum(a));

T3=toc
```