

MA 603 Exam 2 (Part I)

Name:

1. Based on the dataset and code below, write the value that each of the 5 macro variables resolves to. (5 points)

	University	Rank
1	Berkeley	2
2	Cambridge	9
3	Chicago	3
4	Columbia	5
5	Harvard	1
6	MIT	8
7	Michigan	4
8	Princeton	7
9	Stanford	10
10	Yale	6

&Uni1

&Uni2

&Uni3

&Uni4

&Uni5

```
data _NULL_;  
set top_10_universities;  
call symput(cat("Uni", 5 ), trim(University));  
call symput(cat("Uni", _N_ ), trim(University));  
call symput(cat("Uni", Rank), trim(University));  
run;
```

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2. Based on the dataset below, match the code to the dataset it would create. (5 points)

VIEWTABLE: Work.Numbers	
	i
1	11
2	12
3	13
4	14

```
Data    adding1 (keep=sumi) ;
Set      numbers numbers ;
Sumi + i ;
Run ;
```

```
Data    adding2 (keep=sumi) ;
Set      numbers numbers ;
By       i ;
Sumi + i ;
Run ;
```

```
Data    adding3 (keep=sumi) ;
Merge    numbers numbers ;
By       i ;
Sumi + i ;
Run ;
```

```
Data    adding4 (keep=sumi) ;
Merge    numbers numbers ;
By       i ;
Retain Sumi 0 ;
Sumi = Sumi + 1 ;
Run ;
```

```
Data    adding5 (keep=sumi) ;
Set      numbers ;
Sumi = Sumi + i ;
Run ;
```

A

	Sumi
1	11
2	23
3	36
4	50

B

	Sumi
1	11
2	23
3	36
4	50
5	61
6	73
7	86
8	100

C

	Sumi
1	.
2	.
3	.
4	.

D

	Sumi
1	1
2	2
3	3
4	4

E

	Sumi
1	11
2	22
3	34
4	46
5	59
6	72
7	86
8	100

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Code	1	2	3	4	5
Dataset					

3. Based on the dataset below, match the code to the dataset it would create. (5 points)

VIEWTABLE: Datas.City_pops3			
	City	State	Population
1	Boston	MA	610000
2	Chicago	IL	2410000
3	Seattle	WA	415000
4	New York	NY	8550405
5	Philadelphia	PA	1567422

```
Data outputcity1 ;
Set datas.city_pops3 ;
If _N_ = 3 then output ;
Run ;
```

```
Data outputcity2 (drop=i) ;
Set datas.city_pops3 ;
Do I = 1 to 3 ;
  If _N_ = 3 then output ;
End ;
Run ;
```

```
Data outputcity3 (drop=N) ;
Set datas.city_pops3 ;
If N = 3 then output ;
Run ;
```

```
Data outputcity4 ;
Set datas.city_pops3 ;
If _N_ * 10 ** 6 > population
then output ;
Run ;
```

```
Data outputcity5 ;
Set datas.city_pops3 ;
If _N_ = 3 then ; output ;
Run ;
```

A

	City	State	Population
1	Boston	MA	610000
2	Chicago	IL	2410000
3	Seattle	WA	415000
4	New York	NY	8550405
5	Philadelphia	PA	1567422

B

	City	State	Population
1	Boston	MA	610000
2	Seattle	WA	415000
3	Philadelphia	PA	1567422

C

	City	State	Population
1	Seattle	WA	415000
2	Seattle	WA	415000
3	Seattle	WA	415000

D

	City	State	Population
1	Seattle	WA	415000

E

	City	State	Population
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Code	1	2	3	4	5
Dataset					

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4. Match each code to the dataset it would create. (10 points)

```
%macro ques1;
  data nums1;
    do i = 1 to 3;
      output;
    end;
  run;
%mend;
%ques1;
```

```
%macro ques2;
  data nums2;
    %do j = 1 %to 3;
      do i = 1 to 3;
        output;
      end;
    %end;
  run;
%mend;
%ques2;
```

```
%macro ques3;
  data nums3;
    do i = 1 to 3;
      %do j = 1 %to 3;
        output;
      %end;
    end;
  run;
%mend;
%ques3;
```

```
%macro ques4;
  %do j = 1 %to 3;
    data nums4&j;
    do i = 3 to &j by -1;
      output;
    end;
  run;
%end;
%mend;
%ques4;
```

```
%macro ques5(n);
  data nums5;
    do i = 1 to &n;
      output;
    end;
  run;
%mend;
%ques5(2);
```

A

	i
1	1
2	1
3	1
4	2
5	2
6	2
7	3
8	3
9	3

B

	i
1	1
2	2
3	3

C

	i
1	3

D

	i
1	1
2	2
3	3
4	1
5	2
6	3
7	1
8	2
9	3

E

	i
1	1
2	2

Code	Dataset
1	
2	
3	
4	
5	

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