

ICS 103  
Sample Quiz 1

Question 1: (7 points)

Write the result of the expressions shown below:

Expression	Result
3%6	3
5-3/2*2	3
(double)(7/2)	3.00000
5/2.0*(int)2.5	5.00000
129%10%5	4
2+3/2.0*4	8.00000
(int)9.5/(double)6	1.50000

Question 2: (9 points)

Write the output of the following programs:

I)

```
#include <stdio.h>
main() {
int i;
double x = 2.5;
i = x;
x = i;
printf("%d    %f\n",i,x);
}
```

OUTPUT

2 2.0

II)

```
#include <stdio.h>
main() {
int i = 5, k;
double x = 3.5;
scanf("%lf%d",&x,&i);
printf("%d\n%f\n%d\n",i,x,k);
k = 3;
printf("k * k\n");
}
```

OUTPUT

2  
4.000000  
?  
k \* k

Assume the input for this program is:

4 2.9

III)

```
#include <stdio.h>
main() {
int i = 2;
double x;
char y = 'M';
i = i + 0.5;
x = 10 / (double) i;
printf("%d  ",i);
printf("%f%c",x/2,y);
}
```

OUTPUT

2	2.50000M
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Question 3: (4 points)

Given the following program. Write 2 printf statements to have the output shown below the program. Each square represents one space.

```
#include <stdio.h>
int main(void) {
double a = 361.276;
int b = 142;

printf("%6.1f%6d\n",a,b);

printf("%3d%9.4f\n",b,a);

return 0;
}
```

	3	6	1	.	3				1	4	2				
1	4	2		3	6	1	.	2	7	6	0				