

void fun(int *p) int q = 10;p = &q;int main() int r = 20;int *p = &r;fun(p); printf("%d", *p); return 0;

2. Consider the following declaration of a 'two-dimensional array in C:



Assuming that the main memory is byte-addressable and that the array is stored starting from memory address 0, what is the address of a[30][40]? (10%)

3. Consider the code shown below, what are the outputs of the code? (10%)

```
#include<stdio.h>
int main()
       char i = 0;
       for(;i++;printf("%d", i)) ;
       printf("%d",i);
       return 0;
```

4. Consider the code shown below, what are the outputs of the code? (10%)

#i

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clude <stdio main()</stdio 	.h>			
struct r	node			
1 int a, b	o, c	;		
}; struct r		100 million (1990)	or a service of the	
struct r printf('	'%d∖r		20-20-20-20-	1000000
return 0);			

5. Consider the code shown below, what are the outputs of the code? (10%)

```
#include <stdio.h>
int XX(int n) {
  if(n == 0){
     return 1;
  } else if(n == 1) {
     return 3;
  } else {
     return (XX(n-1) + XX(n-2));
  }
int main() {
  int n = 5;
  int i;
          printf("%d ",XX(7));
```







注意:背面尚有試題

6. Consider the code shown below, what are the outputs of the code? (10%)

```
#include<stdio.h>
int main()
       int *ptr = fun();
       printf("%d", *ptr);
       return 0;
int fun()
       int num = 10;
       return num;
```

7. Consider the code shown below, what are the outputs of the code? (10%)



8. Consider the code shown below, what are the outputs of the code? (10%)

```
#include <stdio.h>
int main()
ſ
           *str []={"WWWWW","TTTTT","XXXXX","YYYYY"};
   char
           **sptr []={str+3,str+2,str+1,str};
   char
           ***pp;
   char
   pp=sptr;
   ++pp;
   printf("%s",**++pp+2);
   return 0;
```

9. Consider the code shown below, what are the outputs of the code? (10%)

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#inc	lude <stdio.h></stdio.h>
int	main(){
int	n=6;
	i, j, k = 0;
	for $(i = 1; i <= n; i++)$
	for (j = i; j < n; j++) {
	<pre>printf(" ");</pre>
	}
	while (k != (2 * i - 1)) {
	if (k == 0 k == 2 *
	printf("*");
	else
	<pre>printf(" ");</pre>
	k++;
	}
	k = 0;
	<pre>printf("\n"); // print next</pre>
	for (i = 0; i < 2 * n - 1; i++
	if (1%2 ==0)
	printf("*");
	else
	<pre>printf(" ");</pre>
3	
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XXX? (10%)

<pre>#include<stdio.h< pre=""></stdio.h<></pre>	> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
<pre>#include<conio.h< pre=""></conio.h<></pre>	>
<pre>int main() {</pre>	
int n,r,sum=(),temp;
printf("enter	<pre>r the number=");</pre>
scanf("%d",&	n);
temp=n;	
while(n>0){	
r=n%10;	
sum=(sum*	10)+r;
n=n/10;	
}	
if(temp==sum)
	his number is XXX
else	
printf("	This number is NOT
1	



10. Consider the code shown below, what is the purpose of the code or what will you describe

