Practice Sheet

**1. void display(int a)**

**{**

**printf(" %d",a);**

**if(--a)**

**display(a);**

**printf(" %d",a);**

**}**

**void main()**

**{**

**display(3);**

**}**

**2. void xyz(int x)**

**{**

**printf(" %d",x);**

**if(x)**

**xyz(x-1);**

**printf(" %d",x);**

**}**

**void abc(int a)**

**{**

**printf(" %d",a);**

**xyz(a);**

**if(a)**

**abc(a-1);**

**printf(" %d",a);**

**}**

**void main()**

**{**

**abc(2);**

**}**

**3. void main()**

**{**

**static int a=1;**

**printf(" %d",++a);**

**if(a<=3)**

**main();**

**printf(" %d",a);**

**}**

**4. void abc(int p1,int\*p2)**

**{**

**++p1;**

**++\*p2;**

**printf(" %d %d",p1,\*p2);**

**if(p1<=3)**

**abc(p1,p2);**

**printf(" %d %d",p1,\*p2);**

**}**

**void main()**

**{**

**int a=1,b=2;**

**abc(a,&b);**

**printf(" %d %d",a,b);**

**}**

**5. int fact(int n)**

**{**

**if(n==1)**

**return 1;**

**else**

**return n\*fact(n-1);**

**}**

**void main()**

**{**

**int f;**

**f=fact(5);**

**printf(" Fact is:%d",f);**

**}**

**6. int power(int b,int p)**

**{**

**if(p>1)**

**return b\*power(b,p-1);**

**else**

**return b;**

**}**

**void main()**

**{**

**int r;**

**r=power(2,3);**

**printf(" Power is:%d",r);**

**}**

**7. void xyz()**

**{**

**static int s=5;**

**int a;**

**a=s++;**

**printf(" %d %d",a,s);**

**if(a<=7)**

**xyz();**

**printf(" %d %d",a,s);**

**}**

**void main()**

**{**

**xyz();**

**xyz();**

**}**

**8. int g;**

**void abc()**

**{**

**static int s;**

**auto int a;**

**++g;**

**a=++s;**

**printf(" %d %d %d",a,s,g);**

**if(a<=2)**

**abc();**

**printf(" %d %d %d",a,s,g);**

**}**

**void main()**

**{**

**void xyz();**

**++g;**

**abc();**

**xyz();**

**}**

**void xyz()**

**{**

**static int s=10;**

**int a;**

**a=s++;**

**++g;**

**printf(" %d %d %d",a,s,g);**

**if(a<=12)**

**xyz();**

**printf(" %d %d %d",a,s,g);**

**}**

**9. extern int g=10;**

**void abc()**

**{**

**static int s=5;**

**int a;**

**++g;**

**a=++s;**

**printf(" %d %d %d",a,s,g);**

**if(a<=8)**

**abc();**

**printf(" %d %d %d",a,s,g);**

**}**

**void main()**

**{**

**void xyz();**

**++g;**

**xyz();**

**}**

**void xyz()**

**{**

**static int s;**

**auto int a;**

**a=s++;**

**++g;**

**printf(" %d %d %d",a,s,g);**

**abc();**

**if(a<=2)**

**xyz();**

**printf(" %d %d %d",a,s,g);**

**}**

**int g;**

**10.What is the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**reverse(1);**

**}**

**int reverse(int i)**

**{**

**if (i > 5)**

**exit(0);**

**printf("%d ", i);**

**return reverse(i++);**

**}**

**11.What is the output of this C code?**

**#include <stdio.h>**

**void reverse(int i);**

**int main()**

**{**

**reverse(1);**

**}**

**void reverse(int i)**

**{**

**if (i > 5)**

**return ;**

**printf("%d ", i);**

**return reverse((i++, i));**

**}**

**12.void display(int a)**

**{**

**static int b=a;**

**printf("%d %d",a,b);**

**if(--a)**

**display(a);**

**printf(" %d %d",a,b);**

**}**

**void main()**

**{**

**display(2);**

**}**

**13.void xyz(int x) {**

**printf(" %d",x);**

**if(x)**

**xyz(x-1);**

**printf(" %d",x);**

**}**

**void abc(int a)**

**{**

**printf(" %d",a);**

**xyz(a);**

**if(a)**

**abc(a-1);**

**printf(" %d",a);**

**}**

**void main()**

**{**

**abc(1);**

**}**