Switch Points

1. Inside switch we cant pass only char,short,int, and long type argument only.

2. Level of switch must be constant, we cant write variable inplace of switch lebel.

3. We can't pass string inplace of lebel or argument.

4. In place of lebel we can write macro constant but we cant write declarative constant

5. Body of switch either terminated by curly braces or semicolon.

6. We can't write switch lebel outside switch body.

 7. We can't write duplicate case lebel.

8. We cant place any type of statement in switch body, but in this case only matching cases are executed.

9. inside switch variable declaration is also allowed at begining of body. but we cant initialized that variables at declaration time.

10.After matching switch case all remaining cases are executed until the break is found.

11.we can terminate the switch execution by using break statement. 12.default is a optional case, we can write any place inside switch body. 13.whenever argument value doesn't match any case then the default case is executed.

Practice Sheet

**1. void main()**

**{**

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

**LVL:**

**switch(3)**

**{**

**case a:**

**printf("1");**

**case b:**

**printf("2");**

**default:**

**goto LVL;**

**}**

**}**

**2. void main()**

**{**

**double ch;**

**scanf("%lf", &ch);**

**switch (ch)**

**{**

**case 1:**

**printf("1");**

**break;**

**case 2:**

**printf("2");**

**break;**

**}**

**}**

**3. void main()**

**{**

**char \*ch;**

**printf("Press(1 to 3)");**

**scanf("%s", ch);**

**switch (ch)**

**{**

**case "1":**

**printf("1");**

**break;**

**case "2":**

**printf("2");**

**break;**

**}**

**}**

**4. void main()**

**{**

**int ch='1';**

**switch (ch)**

**{**

**case 1:**

**printf("1\n");**

**default:**

**printf("2\n");**

**}**

**}**

**5. void main()**

**{**

**int ch;**

**printf("Enter 1 or 2:");**

**scanf("%d", &ch);**

**switch (ch)**

**{**

**case 1:**

**printf("1\n");**

**break;**

**printf("hi");**

**default:**

**printf("2\n");**

**}**

**}**

**6. void main()**

**{**

**int ch=1;**

**switch (ch, ch + 1)**

**{**

**case 1:**

**printf("1\n");**

**break;**

**case 2:**

**printf("2");**

**break;**

**}**

**}**

**7. int main()**

**{**

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

**switch (a)**

**{**

**case a\*b:**

**printf("yes ");**

**case a-b:**

**printf("no\n");**

**break;**

**}**

**}**

**8. int main()**

**{**

**int x = 97;**

**switch (x)**

**{**

**case 'a':**

**printf("yes ");**

**break;**

**case 97:**

**printf("no\n");**

**break;**

**}**

**}**

**9. int main()**

**{**

**float f = 1;**

**switch (f)**

**{**

**case 1.0:**

**printf("yes\n");**

**break;**

**default:**

**printf("default\n");**

**}**

**}**

**10.const int a = 1,  b = 2;**

**int main()**

**{**

**int x = 1;**

**switch (x)**

**{**

**case a:**

**printf("yes ");**

**case b:**

**printf("no\n");**

**break;**

**}**

**}**

**11.#define max(a) a**

**int main()**

**{**

**int x = 1;**

**switch (x)**

**{**

**case max(2):**

**printf("yes\n");**

**case max(1):**

**printf("no\n");**

**break;**

**}**

**}**

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

**#include <stdio.h>**

**int main()**

**{**

**switch(printf("Do"))**

**{**

**case 1:**

**printf("First\n");**

**break;**

**case 2:**

**printf("Second\n");**

**break;**

**default:**

**printf("Default\n");**

**break;**

**}**

**}**

**13.int main()**

**{**

**int a = 1;**

**switch (a)**

**case 1:**

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

**case 2:**

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

**case 3:**

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

**default:**

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

**}**

**14.switch (ch)**

**{**

**case 'a':**

**case 'A':**

**printf("true");**

**}**

**Given code is similar to which if declaration.**

**a) if (ch == ‘a’ && ch == ‘A’) printf(“true”);**

**b) if (ch == ‘a’)**

**if (ch == ‘a’) printf(“true”);**

**c) if (ch == ‘a’ || ch == ‘A’) printf(“true”);**

**d) Both a and b**

**15.void main()**

**{**

**int a=1;**

**switch(++a)**

**{**

**}**

**switch(++a);**

**printf("a");**

**}**

**16.void main()**

**{**

**int a=1;**

**switch(a)**

**{**

**case 4:**

**printf("s1");**

**break;**

**case 1<<2:**

**printf("s2");**

**}**

**}**

**17.#define j 2**

**void main()**

**{**

**int a=1;**

**switch(a)**

**{**

**case 1:**

**printf("s1");**

**break;**

**case j:**

**printf("s2");**

**}**

**}**

**18.void main()**

**{**

**int i=4;**

**switch(i)**

**{**

**int x=1;**

**default:**

**x=2;**

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

**case 1:**

**x=3;**

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

**break;**

**case 2:**

**x=4;**

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

**}**

**}**

**19.void main()**

**{**

**int i=9;**

**switch(i){**

**default :**

**{**

**case 6:**

**printf("s1");**

**}**

**case 3:**

**pritnf("s2");**

**break;**

**}**

**}**

**20.void main()**

**{**

**int i=1,j=2;**

**switch(i,j)**

**{**

**default:printf("LAST");**

**break;**

**case 3:printf("THREE");**

**break;**

**case 2:printf("TWO");**

**break;**

**case 1:printf("ONE");**

**break;**

**}**

**}**

**21.void main() {**

**char k=4;**

**switch(k)**

**{**

**default:printf("LAST");**

**case 4:printf("FOUR");**

**case 2:printf("TWO");**

**break;**

**}**

**}**

**22.void main() {**

**int num=0;**

**for(num=0;num<2;num++) {**

**switch(num)**

**{**

**case 0:num+=2;**

**case 1:num+=1;**

**case 5:num+=2;**

**default:num+=3;**

**break;**

**}**

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

**}**

**}**

**23.void main()**

**{**

**int i=1,j=2,c=3;**

**int ch=2;**

**switch(ch)**

**{**

**default:**

**i++;**

**case 1<<1==2:**

**j++;**

**case 1:**

**i=j++;**

**}**

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

**}**

**24.void main()**

**{**

**int i=1,j=2,c=3;**

**int ch=2;**

**switch(ch)**

**{**

**default:**

**i++;**

**case i+1==2:**

**j++;**

**}**

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

**}**

**25.void main()**

**{**

**int i=1;**

**switch(i)**

**{**

**case 1:printf("A");**

**break;**

**case 2:printf("B");**

**break;**

**case 3-2:printf("C");**

**break;**

**default:printf("D");**

**}**

**}**

**26.void main()**

**{**

**int num=10;**

**switch(num)**

**{**

**}**

**printf("S1");**

**}**

**27.void main()**

**{**

**int i=1;**

**switch(i)**

**{**

**printf("\nHello");**

**case 1:printf("\nS1");**

**break;**

**case 2:printf("\nS2");**

**break;**

**}   }**

**28.void main()**

**{**

**switch(0)**

**case 0:**

**printf("hai");   }**

**29.void main()**

**{**

**switch(1)**

**case 0:**

**printf("hai");}**

**30.void main()**

**{**

**switch(1)**

**default:**

**printf("hai");**

**}**

**31.void main()**

**{**

**switch(0)**

**default:**

**printf("hai");**

**}**

**32.void main()**

**{**

**switch(0)**

**default:**

**printf("hai");**

**}**

**33.void main()**

**{**

**int i=1;**

**switch(i)**

**{**

**case 1:printf(:”case1:”);**

**break;**

**case 1\*4+2:printf(“case 6:”);**

**}**

**}**

**34.void main()**

**{**

**int i=0;     switch(printf("K"),printf("ku"))**

**{**

**case 1: printf("%d",i);**

**break;**

**case 2: printf("%d",++i);**

**break;**

**}**

**}**

**35.void main(){**

**switch(\*(1+"AB" "CD"+1)){**

**case 'A':printf("Pulp Fiction");**

**break;**

**case 'B':printf("12 Angry Man");**

**break;**

**case 'C':printf("Casabance");**

**break;**

**case 'D':printf("Blood Diamond");**

**}**

**}**

**36.void main(){**

**switch(5||2|1){**

**case 3&2:printf("1");**

**break;**

**case -~11:printf("2");**

**break;**

**case 6-3<<2:printf("3");**

**break;**

**case 5>=5:printf("4");**

**}**

**}**

**37.void main(){**

**switch(6){**

**case 6.0f:printf("Sangakkara");**

**break;**

**case 6.0: printf("Sehwag");**

**break;**

**case 6.0L:printf("Steyn");**

**break;**

**default:  printf("Smith");**

**}**

**}**

**38.void main(){**

**switch(0X0){**

**case NULL:printf("1");**

**break;**

**case '\0':printf("2");**

**break;**

**case 0: printf("3");**

**break;**

**default: printf("4");**

**}   }**

**39.void main(){**

**switch(5/2\*6+3.0){**

**case 3:printf("David Beckham");**

**break;**

**case 15:printf("Ronaldinho");**

**break;**

**case 0:printf("Lionel Messi");**

**break;**

**default:printf("Ronaldo");**

**}    }**

**40.void main(){**

**unsigned char c=280;**

**switch(c){**

**printf("1");**

**case 280:printf("2");**

**case 24: printf("3");**

**default:  printf("4");**

**printf("5");**

**}   }**

**41.void main(){**

**int x=3;**

**while(1){**

**switch(x){**

**case 5/2: x+=x+++x;**

**case 3%4: x+=x--- x;continue;**

**case 3>=3: x+=!!!x;break;**

**case 5&&0:x+=~~~x;continue;**

**default: x+=-x--;**

**}       break;**

**}**

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

**}**

**42.void main(){**

**char \*str="ABCDEFGHIJKLMNOPQRSTUVWXYZ";**

**int a=2;**

**switch('A'){**

**case 97:**

**switch(97){**

**default: str+=1;**

**}**

**case 65:**

**switch(97){**

**case 'A':str+=2;**

**case 'a':str+=4;**

**}**

**default:**

**for(;a;a--)**

**str+=8;**

**}**

**printf("%s",str);**

**}**