```
A 1 - int n=68491;
 int rem,sum=0;
 while (n>0) {
   rem=n%10;
   sum=sum*10+rem;
   n=n/10;
 printf("%d",sum);
A 2 - int n=19486;
 int rem,sum=0;
 while (n>0) {
   rem=n%10;
   sum=sum*10+rem;
   n=n/10;
 }
 printf("%d",sum);
A 3 - int n=9164;
 int rem,sum=0;
 while (n>0) {
   rem=n%10;
   sum=sum*10+rem;
   n=n/10;
 }
 printf("%d",sum);
A 4 - int n=12321;
 int rem,sum=0;
 int temp=n;
 while (n>0) {
   rem=n%10;
   sum=sum*10+rem;
   n=n/10;
 }
 if (temp==sum) {
 printf("palindrome number"); }
 else {
```

```
printf("not palindrome"); }
A 5 - int n=123421;
 int rem,sum=0;
 int temp=n;
 while (n>0) {
   rem=n%10;
   sum=sum*10+rem;
   n=n/10;
 }
 if (temp==sum) {
 printf("palindrome number"); }
 else {
  printf("not palindrome"); }
A 6 - int num=153;
 int rem,sum=0;
 int temp=num;
 while (num>0) {
 rem=num%10;
 sum=sum+rem*rem*rem;
 num=num/10; }
 if (temp==sum) {
 printf("armstrong number"); }
 else {
 printf("not armstrong number"); }
Armstrong number
A 7 - int num=152;
 int rem,sum=0;
 int temp=num;
 while (num>0) {
 rem=num%10;
 sum=sum+rem*rem*rem;
 num=num/10; }
 if (temp==sum) {
```

```
printf("armstrong number"); }
 else {
 printf("not armstrong number"); }
Not armstrong number
A 8 - int num=151;
 int rem,sum=0;
 int temp=num;
 while (num>0) {
 rem=num%10;
 sum=sum+rem*rem*rem;
 num=num/10; }
 if (temp==sum) {
 printf("armstrong number"); }
 else {
 printf("not armstrong number"); }
A 9 - int num=9,square,rem,sum=0;
 square=num*num;
 while (square>0) {
 rem=square%10;
 sum=sum + rem;
 square=square/10; }
  if (sum == num) {
   printf("%d is a Neon number.\n", num);
  } else {
   printf("%d is not a Neon number.\n", num);
9 is a neon number
A 10 - int num = 28;
 int sum = 0;
 int i = 1;
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while (i <= num / 2) {
   if (num \% i == 0) {
      sum += i;
   }
   j++;
 }
 if (sum == num) {
   printf("%d is a perfect number.\n", num);
 } else {
   printf("%d is not a perfect number.\n", num);
 }
A 11 - char a;
 printf("enter a character ");
 scanf("%c",&a);
 if (a=='r') {
  int n;
  scanf("%d",&n);
  int rem,sum=0;
  while (n>0) {
     rem=n%10;
     sum=sum*10+rem;
     n=n/10;
  }
  printf("Reverese number %d",sum);
 }
 else if (a=='a') {
  int num;
  scanf("%d",&num);
  int rem,sum=0;
  int temp=num;
  while (num>0) {
  rem=num%10;
  sum=sum+rem*rem;
  num=num/10; }
```

```
if (temp==sum) {
 printf("armstrong number"); }
 else {
 printf("not armstrong number"); }
}
else if (a=='n') {
 int num;
 scanf("%d",&num);
 int square,rem,sum=0;
 square=num*num;
 while (square>0) {
 rem=square%10;
 sum=sum + rem;
 square=square/10; }
  if (sum == num) {
   printf("%d is a Neon number.\n", num);
  } else {
    printf("%d is not a Neon number.\n",
  num); }
}
else if (a=='p') {
 int n;
 scanf("%d",&n);
 int rem,sum=0;
 int temp=n;
 while (n>0) {
   rem=n%10;
   sum=sum*10+rem;
   n=n/10;
 }
 if (temp==sum) {
 printf("palindrome number"); }
 else {
  printf("not palindrome"); }
}
```

```
else if (a=='t') {
 int num;
 scanf("%d",&num);
 int sum = 0;
 int i = 1;
 while (i <= num / 2) {
    if (num % i == 0) {
      sum += i;
    j++;
 }
 if (sum == num) {
    printf("%d is a perfect number.\n", num);
 } else {
    printf("%d is not a perfect number.\n",
 num); }
}
else {
printf("Character should be r,a,n,p,t"); }
```