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*Write a program to check whether a supplied number is perfect square or not ?*

Using SUB Procedure:

---

```
DECLARE SUB PRSQR(N)
CLS
INPUT "ENTER A NUMBER" ; N
CALL PRSQR(N)
END

SUB PRSQR(N)
S=SQR(N)
IF S = INT(S) THEN
PRINT "SUPPLIED NUMBER IS PERFECT SQUARE"
ELSE
PRINT "SUPPLIED NUMBER IS NOT PERFECT SQUARE"
ENDIF
END SUB
```

---

USING FUNCTION PROCEDURE

---

```
DECLARE FUNCTION PRSQR$(N)
CLS
INPUT "ENTER A NUMBER" ; N
PRINT PRSQR$(N)
END

FUNCTION PRSQR$(N)
S=SQR(N)
IF S = INT(S) THEN
```



```
PRSQR$="PERFECT SQUARE"  
ELSE  
PRSQR$="NOT PERFECT SQUARE"  
ENDIF  
END SUB
```

---

2. Write a program to display the sum of individual digits of multi digit input number.

Using Sub Procedure

---

```
DECLARE SUB SUMDIG(N)  
CLS  
INPUT "ENTER MULTIGIT NUMBER" ; N  
CALL SUMDIG(N)  
END  
  
SUB SUMDIG(N)  
WHILE N<>0  
R=N MOD 10  
S=S+R  
N=N\10  
WEND  
PRINT "SUM IS " ; S  
END SUB
```

---

Using Function Procedure:

---

```
DECLARE FUNCTION SDIG(N)  
CLS  
INPUT "ENTER A NUMBER"; N  
PRINT "SUM IS " ; SDIG(N)
```



```
END  
  
FUNCTION SDIG(N)  
WHILE N<>0  
R=N MOD 10  
S=S+R  
N=N\10  
WEND  
SDIG=S  
END FUNCTION
```

---

3. Write a program to count the total words present in an input string.

USING SUB PROCEDURE

---

```
DECLARE SUB WCOUNT(N$)  
CLS  
INPUT "ENTER A STRING" ; N$  
CALL WCOUNT(N$)  
END  
SUB WCOUNT(N$)  
C=1  
FOR I = 1 TO LEN(N$)  
C$=MID$(N$,I,1)  
IF C$=" " THEN C=C+1  
NEXT I  
PRINT "NUMBER OF C" ; C  
END SUB
```

---

4. Write a program to print the longest string among three different supplied string.



### Using SUB Procedure

---

```
DECLARE SUB LON(A$,B$,C$)
CLS
INPUT "ENTER FIRST STRING " ; A$
INPUT "ENTER SECOND" ; S$
INPUT "ENTER THIRD" ; T$
CALL LON(A$,S$,T$)
END
```

```
SUB LON(A$,B$,C$)
A=LEN(A$)
B=LEN(B$)
C=LEN(C$)
IF A>B AND A>C THEN
LONG$=A$
ELSEIF B>A AND B>C THEN
LONG$=B$
ELSE
LONG$=C$
ENDIF
PRINT "LONGEST STRING" ; LONG$
END SUB
```

---

### USING FUNCTION

---

```
DECLARE FUNCTION LONG$(A$,B$,C$)
CLS
INPUT "ENTER FIRST STRING " ; A$
INPUT "ENTER SECOND" ; S$
INPUT "ENTER THIRD" ; T$
PRINT "LONGEST STRING" ; LONG$(A$,S$,T$)
```



```
END  
  
FUNCTION LONG$(A$,B$,C$)  
A=LEN(A$)  
B=LEN(B$)  
C=LEN(C$)  
IF A>B AND A>C THEN  
LONG$=A$  
ELSEIF B>A AND B>C THEN  
LONG$=B$  
ELSE  
LONG$=C$  
ENDIF  
END FUNCTION
```

---

5. Write a program to find the factors of input number

---

```
DECLARE SUB FACT(N)  
CLS  
INPUT "ENTER A NUMBER"; N  
CALL FACT(N)  
END  
SUB FACT(N)  
FOR I = 1 TO N  
IF N MOD I = 0 THEN PRINT I;  
NEXT I  
END SUB
```

---

6. Write a program to find the sum of factors of input number.

---

```
DECLARE SUB FACT(N)
```



```
CLS
INPUT "ENTER A NUMBER"; N
CALL FACT(N)
END
SUB FACT(N)
FOR I = 1 TO N
IF N MOD I = 0 THEN S=S+I
NEXT I
PRINT "SUM OF FACTORS" ; S
END SUB
```

---

7. Check input number is prime or not.

---

```
CLS
DECLARE SUB PRIME(A)
CLS
INPUT "ENTER A NUMBER" ; N
CALL PRIME(N)
END
SUB PRIME(A)
FOR I = 1 TO A
IF A MOD I = 0 THEN C=C+1
NEXT I
IF C=2 THEN
PRINT "PRIME"
ELSE
PRINT "NOT PRIME"
ENDIF
END SUB
```

---

8. Write a program to display Armstrong numbers from 1 to 500



```
DECLARE SUB ARM
CLS
CALL ARM
END
SUB ARM
FOR I = 1 TO 500
A=I
S=0
WHILE A<>0
R=N MOD 10
S=S+R^3
A=A\10
WEND
IF S=I THEN
PRINT "ARMSTRONG"
ELSE
PRINT "NOT ARMSTRONG"
ENDIF
END SUB
```

---

9. Display palindrome numbers from 1 to 1000

---

```
DECLARE SUB PAL()
CLS
CALL PAL
END
SUB PAL
FOR I = 1 TO 1000
A=I
S=0
WHILE A<>0
```



```
R=N MOD 10
S=S*10+R
A=A\10
WEND
IF S=I THEN
PRINT "PALINDROME"
ELSE
PRINT "NOT PALINDROME"
ENDIF
END SUB
```

---

10. Display prime numbers from 1 to 500

---

```
DECLARE SUB PRIME()
CLS
CALL PRIME
END
SUB PRIME
FOR I = 1 TO 500
C=0
FOR J = 1 TO I
IF I MOD J=0 THEN C=C+1
NEXT J
IF C=2 THEN PRINT I;
NEXT I
END SUB
```

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