Test data for the Programming Assignment

Program 1 (simple while):

int I=1, J=2, K=4, M=6, N=8, L=0,F, G;

int S= I+J;

K= S+1;

while( I <= N){

K= K+N;

F= K\* N;

I= I +1;

}

return G;

Program 2 (nested while):

int I=1, J=2, K=4, M=6, N=8, L=0,F, G;

int S= I+J;

K= S+1;

while( I <= N){

K= K+N;

F= K\* N;

K= S+1;

while( I <= N){

K= K+N;

F= K\* N;

}

}

return K;

Program 3 (simple if else):

int I=1, J=2, K=4, M=6, N=8, L=0,F, G;

int S= I+J;

K= S+1;

if(( K+J) != (M + F)) {

F= M+ N;

G= M\*N;

}

else{

F= M-N;

G= M+N;

}

K= S+1;

return G;

Program 4 (simple if, else if, else):

int I=1, J=2, K=4, M=6, N=8, L=0,F, G;

int S= I+J;

K= S+1;

if(( K+J) != (M + F)) {

F= M+ N;

G= M\*N;

}

else if(( K+J) != (M + F)) {

F= M+ N;

}

else{

F= M-N;', 'G= M+N;

}

K= S+1;

return G;

Program 5 (simple do – while):

int I=1, J=2, K=4, M=6, N=8, L=0,F, G;

int S= I+J;

K= S+1;

do {

F= M+ N;

G= M\*N;

} while( I <= N)

return K;

Program 6 (nested do – while):

int I=1, J=2, K=4, M=6, N=8, L=0,F, G;

int S= I+J;

K= S+1;

do {

F= M+ N;

G= M\*N;

do {

F= M+ N;

G= M\*N;

} while (I > G)

} while( I <= N)

return K;

Program 7 (simple for – loop):

int I=1, J=2, K=4, M=6, N=8, L=0,F, G;

int S= I+J;

K= S+1;

for(int i = 0; i<=K; i++){

S= M+ N;

K= M\*N;

J += K

N += S

}

return K;

Program 8 (only for – loop):

int I=1, J=2, K=4, M=6, N=8, L=0,F, G;

K= S+1;

int S= I+J;

for(int i = 0; i<=K; i++; M += N;) {

S= M+ N;

K= M\*N;

}

Program 9 (nested for – loop):

int I=1, J=2, K=4, M=6, N=8, L=0,F, G;

int S= I+J;

K= S+1;

for(int i = 0; i<=K; i++){

S= M+ N;

K= M\*N;

J += K;

N += S;

for(int j = 0; j<=M; j++){

J += K;

N += S;

}

S= M+ N;

K= M\*N;

J += K;

N += S;

}

return K;

Program 10:

1 Int I= 10;

2 Int N;

3 Read N;

4 Int K= 10;

5 if (S< 10){

6 K=K-1;

7 }

8 else if (I += 10){

9 K= K-2;

10 I =I-2;

11 }

12 else{

13 K= K-2;

14 I =I-2;

15 }

16 return K;

Program 11:

Int I= 10;

Int N;

Read N;

Int H;

Read H;

S= H+ I;

if (S< 10){

K=K-1;

while (I >0 && K >1){

int S= 0;

do {

S= S+ I;

if (S< 10){

K=K-1;

}

else{

K= K-2;

I =I-2;

}

}

While (K>0)

}

}

else if ( 10 <= S < 20) {

K\*=K-1;

}

else{

K= K-2;

I =I-2;

}

Program 12:

Int I= 10;

Int N;

Read N;

Int K= 10;

Do {

If( N>0) {

While (K>0) {

int S= 0;

S= S+ I;

If (S< 10) {

K=K-1;

}

Else {

K= K-2;

I =I-2;

}

}

}

Else {

For ( int i=0; S< 20; S=S-i) {

Int M= S + K;

}

}

}

While ( M >S &K<N)

Program 13:

For ( int i=0; S< 20; S=S-i) {

Int M = 0;

If( N>0) {

While (K>0) {

int S= 0;

S= S+ I;

If (S< 10) {

K=K-1;

}

Else {

K= K-2;

I =I-2;

}

}

}

Else {

For ( int i=0; S< 20; S=S-i) {

Do {

M += S + K;

}

While (M < 100)

M /= 2;

}

}

}

Program 14:

For ( int i=0; S< 20; S=S-i) {

Do {

M += S + K;

}

While (M < 100)

M /= 2;

}