main.c

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```c
//#include<fastmath67x.h>
#include<math.h>
void main()
{
int *Xn,*Hn,*Output;
int *XnLength,*HnLength;
int i,k,n,l,m;
Xn=(int *)0x80010000; //input x(n)
Hn=(int *)0x80011000; //input h(n)
XnLength=(int *)0x80012000; //x(n) length
HnLength=(int *)0x80012004; //h(n) length
Output=(int *)0x80013000; // output address
l=*XnLength; // copy x(n) from memory address to variable l
m=*HnLength; // copy h(n) from memory address to variable m
for(i=0;i<(l+m-1);i++) // memory clear
{
Output[i]=0; // o/p array
Xn[l+i]=0; // i/p array
Hn[m+i]=0; // i/p array
}
```

```
21  for(n=0;n<(l+m-1);n++)
22  {
23  for(k=0;k<=n;k++)
24  {
25  Output[n] =Output[n] + (Xn[k]*Hn[n-k]); // convolution
        operation.
26  }
27  }
28  }
```