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//Generic(or void pointer)
#include <iostream>
using namespace std;
int main()
{
  int a=10;
  float b=34.56f;
  char c='A';
  void *ptr=&a;
  cout<<*(int*)ptr<<endl;</pre>
  ptr=&b;
  cout<<*(float*)ptr<<endl;</pre>
  ptr=&c;
  cout<<*(char*)ptr;</pre>
  return 0;
}
//Constant pointer
#include <iostream>
using namespace std;
int main()
  int a=10,b=20;
  int *const ptr=&a;
  cout<<*ptr;
  ptr=&b;//Compile time error as ptr is constant pointer
  return 0;
}
//Constant pointer
#include <iostream>
using namespace std;
int main()
  int a=10,b=20;
  int *const ptr=&a;
  cout<<*ptr<<endl;</pre>
  //ptr=&b;//Compile time error as ptr is constant pointer[We cannot change the address hold by pointer]
  *ptr=100;//We can change the value of the variable towards which pointer is pointing
  cout<<*ptr;
  return 0;
}
//Pointer to constant
#include <iostream>
using namespace std;
int main()
  int a=10,b=20;
  const int *ptr=&a;
  cout<<*ptr<<endl;</pre>
  ptr=&b;
```

```
cout<<*ptr;
  *ptr=100;//Compile time error will come as we cannot modify the value
  return 0;
}
//Constant pointer to constant
#include <iostream>
using namespace std;
int main()
{
  int a=10,b=20;
  const int *const ptr=&a;
  cout<<*ptr<<endl;
  //ptr=&b;//Compile time error as ptr is constant pointer[We cannot change the address hold by pointer]
  //*ptr=100;//Compile time error ,We cannot change the value of the variable towards which pointer is
pointing
  cout<<*ptr;
  return 0;
}
//Dangling pointer(Compile time memory allocation case
#include <iostream>
using namespace std;
int main()
{
  int *ptr;
     int a=10;
     ptr=&a;
     cout<<*ptr<<endl;</pre>
     cout<<ptr<<endl;
  }
  cout<<pre>cout<<pre>cout<</pre> and after variable goes out of scope ptr is having same memory address[Hence it is
dangling pointer]
  return 0;
//Dangling pointer(Compile time memory allocation case) with solution
#include <iostream>
using namespace std;
int main()
{
  int *ptr;
  {
     int a=10;
     ptr=&a;
     cout<<*ptr<<endl;
     cout<<ptr<<endl;
  }
  ptr=NULL;
  cout<<ptr>cout<<<ptr>printed(No longer a dangling pointer)
  return 0:
```