```
export default function CartReducer(state: CartStateType, action: Action) {
          witch (action.type) {
   case 'ADD_TO_CART':
        const item: Cart = {
            ...action.payload,
                                                                                                                                                                                                                                     function addToCart(product: Product) {
    dispatch({ type: 'ADD_TO_CART', payload: product });
                     quantity: 1,
amount: action.payload.price
}; // copy of payload
                                                                                                                                                                                                                                           function increment(id: number) {
    dispatch({ type: 'INCREMENT', payload: id })
                            urn {
products: [...state.products, item], // existing products + push item
total: state.total + item.amount,
count: state.count + 1
                                                                                                                                                                                                                                           function checkout() {
   // code to write server
   dispatch({ type: 'CLEAR_CART' });
// central placeholder for my data
export const CartContext = createContextContextType>({
                                                                                                                                                                                                                                           return <artContext.Provider value={{
    products: state.products, // managed by reducer
    total: state.total, // managed by reducer
    count: state.count, //managed by reducer
    addToCart,
    increment,
    checkout
                                                                                                                                         products: [],
                                                                                                                                         total: 0,
      count: 0,
                                                                                                                                                ction addToCart(product: Product) {
dispatch({ type: 'ADD_TO_CART', payload: product });
                                                                                                                                                                                                                                           }}>
                                                                                                                                           function increment(id: number) {
    dispatch({ type: 'INCREMENT', payload: id })
                                                                                                                                                                                                                                           {props.children}
</CartContext.Provider>
 });
                                                                                                                                                // code to write server
dispatch({ type: 'CLEAR_CART' });
```

